DR-620

Service Manual

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ALINCO,INC.

SPECIFICATIONS

1) GENERAL

Frequency coverage 87.500 - 107.995MHz (WFM RX)

DR-620T (U.S amateur) 108.000 - 135.995MHz (AM RX)

136.000 - 173.995MHz (RX)

144.000 - 147.995MHz (TX)

335.000 - 479.995MHz (RX)

430.000 - 449.995MHz (TX)

DR-620E (European amateur) 87.500 - 107.995MHz (WFM)

144.000 - 145.995MHz (RX, TX)

430.000 - 439.995MHz (RX, TX)

Operating mode 16K0F3E (Wide mode) 8K50F3E (Narrow mode)

Frequency resolution 5, 8.33, 10, 12.5, 15, 20, 25, 30, 50, 100kHz

Number of memory channels 200

Antenna impedance 50Ω unbalanced

Power requirement 13.8V DC±15% (11.7 to 15.8V)

Ground method Negative ground

Current drain Receive 0.6A (Max.) 0.4A (Squelched)

Transmit 11.0A

Operating temperature - 10 to 60 C Frequency stability ±2.5ppm

Dimensions 142 (w) \times 40 (h) \times 174 (d) mm

(w/o knobs)

Weight Approx. 1.0kg

2) TRANSMITTER

Output power High: 50W (VHF)

35 W(UHF)

Mid: 10W

Low: 5W

Modulation system Variable reactance frequency modulation

Maximum frequency deviation ±5kHz (Wide mode) ±2.5kHz (Narrow mode)

Spurious emission -60dB Adjacent channel power -60dB

Modulation Distortion Lass than 3%

Microphone impedance $2k\Omega$

3) RECEIVER

Sensitivity -16dBu for 12dB SINAD

Receiver circuitry

Double conversion superheterodyne
Intermediate frequency

1st 21.7MHz 2nd 450kHz (VHF)

1st 45.1MHz 2nd 455kHz (UHF)

Squelch sensitivity -18dBu

Selectivity (-6dB / -60dB) 12kHz / 24kHz

Spurious and image rejection ratio 70dB

Audio output power 2.0W (8 Ω , 10% THD)

! Note: All specifications are subject to change without notice or obligation.

CIRCUIT DESCRIPTION

1) VHF Reception

Incoming VHF signals are passed through a low-pass filter network, antenna switching diodes D20 (1SV268), D19 (1SS355) and D26 (DAN235E), and a high-pass filter network, and on to the RF amplifier Q19 (3SK131). The amplified RF signal is passed through another RF amplifier Q18 (2SC5226) and band-pass filtered again by varactor-turned resonators L46, L49, L51 and D28, D29, D30 (all HVU359), then applied to the 1st mixer Q21 (3SK240) along with the first local signal from the PLL circuit.

The first local signal is generated between 122.3 MHz and 126.3 MHz by the VHF VCO, which consists of Q9 (2SK508) and varactor diodes D10, and D11 (both 1SV282) according to the receiving frequency. The 21.7 MHz first IF signal is applied to monolithic crystal filters XF and XF2 (both Q2175AD20) which strip away unwanted mixer products, and the IF signal is applied to the first IF amplifier Q20 (2SC4618). The amplified first IF signal is then delivered to the FM IF subsystem IC IC3 (TK10931V), which contains the second mixer, limiter amplifier, noise amplifier, and FM detector.

The second local signal is generated by 21.25MHz TCXO, producing the 450 kHz second IF signal when mixed with the first IF signal within IC3.

The 450 kHz second IF signal is applied to the ceramic filter FL1 (ALFYM450E) which strips away all but the desired signal, and then passes through the limiter amplifier within IC3 to the discriminator coil L101, which removes any amplitude variations in the 450 kHz IF signal before detection of speech. The detected audio then signal is amplified by IC9 (NJM2902V-B) passes through the de-emphasis network, a high-pass filter consisting of IC9 (NJM2902V-A) and associated circuitry, and low-pass filter consisting and associated circuitry. The filtered audio signal is switched by IC12 (BU4052), then passes through the audio volume control IC IC13 (M511312FP) which adjusts the audio sensitivity to compensate for audio level variations.

The audio signal is amplified by IC8 (LA4425A), then applied to the internal loudspeaker.

2) UHF Reception

Incoming UHF signals are passed through a low-pass filter network, high-pass filter network, antenna switching diodes D16 (1SS355) and D18 (1SV268), and on to the band-pass filter network consisting of varctor diode D49 (HVU359) and L79.

The filtered UHF signal is amplified by RF amplifier Q41 (3SK240) and fed to another band-pass filter consisting of varactor diode D50 (HVU359) and L80, and then is passed through another RF amplifier Q43 (2SC5226) to another band-pass filter consisting of varactor diodes D51 and D52 (both HVU359) and L81/L82.

The amplified and filtered UHF signal is applied to the 1st mixer Q42 (3SK240) along with the first local signal from the PLL circuit.

The first local signal is generated between 384.9 MHz and 404.9 (*2) MHz by the UHF VCO, which consists of Q29 (2SK508) and varactor diodes D38 and D40 (both ISV278), according to the receiving frequency.

The 45.1MHz first IF signal is applied to monolithic crystal filters XF3A and XF3B (Q4511BD10) which strip away unwanted mixer products, and the IF signal is applied to the first IF amplifier Q44 (2SC4618). The amplified first IF signal is then delivered to the FM IF subsystem IC IC5 (TA31136FN), which 2) The amplified first IF signal is then delivered to the FM IF subsystem IC IC5 (TA31136FN), which contains the second mixer, limiter amplifier, noise amplifier, and FM detector.

The second local signal is generated by 45.555 MHz crystal X4, producing the 455 kHz second IF signal within IC5.

The 455kHz second IF signal is applied to the ceramic filter FL4 (CFW455E) which strips away all but the desired signal, and then passes through the limiter amplifier within IC5 to the discriminator coil L102, which removes any amplitude variations in the 455 kHz IF signal before detection of speech. The detected audio then signal is amplified by IC9 (NJM2902V-C) passes through the de-emphasis network, a high-pass filter consisting of IC9 (NJM2902V-D) and associated circuitry, and a low-pass filter consisting and associated circuitry. The filtered audio signal is switched by IC12 (BU4052), then passes through the audio volume control IC IC13 (M511312FP), which adjusts the audio sensitivity to compensate for audio level variations.

The audio signal is amplified by IC8 (LA4425A) then applied to the internal loudspeaker.

3) FM Reception

Incoming FM signals are passed through a low-pass filter network, antenna switching diodes D19 (1SS355), D20 (1SV2685) and D26 (DAN235E), and a high-pass filter network, and on the RF amplifier Q36 (2SC5066). The amplified RF signal is passed through band-pass filtered L, C, then applied to the 1st mixer Q33 (2SC5066) along with the first local signal from the circuit.

The first local signal is generated between 86.7 MH and 118.7 MHz by the FM VCO, which consists of Q14 (2SC4808) and varactor diodes D23, and D25, (both 1SV282) according to the receiving frequency. The 10.7 MHz first IF signal is applied to ceramic filters FL3 (SFT10.7MAS) which strip away unwanted mixer products, and the IF signal is applied to the first IF amplifier Q37 (2SC4618). The amplified first IF signal is then delivered to the FM IF subsystem IC IC3 (TK10931V), limiter amplifier, noise amplifier, and FM detector.

The 10.7 MHz first IF signal is applied to the discriminator coil L53, which removes any amplitude variations in the 10.7 MHz IF signal before detection of speech.

4) V/V (VHF-VHF) Dual Reception

During V & V operation, the incoming VHF "sub" band signal is passed through a low-pass filter network, antenna switching diode D19 (1SS355), D20 (1SV268) and a high-pass filter network to the RF amplifier Q19 (3SK131). The amplified RF signal is passed through a high-pass filter network, VHF "sub" RF amplifier Q31 (2SC5066), and a low-pass filter network, then is applied to the VHF "sub" first mixer Q32 (2SC5066) along with the 45.1 MHz VHF "sub" first local signal from the VHF "sub" VCO circuit. The VHF "sub" first local signal is generated between 189.1 MHz and 193.1 MHz by the VHF "sub" VCO Q38.

The 45.1 MHz VHF "sub" second IF signal is applied to the UHF receiving circuit. The VHF "sub" signal is amplified, filtered, and demodulated, etc., by the UHF "main" receiving circuit, described previously.

5) U/U (UHF-UHF) Dual Reception

During U/U operation, the incoming UHF "sub" band signal is passed through high-pass and low-pass filter networks, antenna switching diodes D16 (1SS355) and D18 (ISV268), and another high-pass filter network to the RF amplifier Q51 (2SC5066). The amplified RF signal is passed through a low-pass filter network, UHF "sub" RF amplifier Q49 (2SC5066), and low-pass filter network, then is applied to the UHF "sub" first mixer Q52 (2SC5066) along with the 21.7 MHz UHF "sub" first local signal from the UHF "sub" VCO.

The UHF "sub" first local signal is generated between 408.3 MHz and 428.3MHz by the UHF "sub" VCO Q13.

The 21.7 MHz UHF "sub" second IF signal applied to VHF receiving circuit. The UHF "sub" signal is amplified, filtered, and demodulated, etc., by the VHF receiving circuit, described previously.

6) VHF Squelch Control

When no VHF carrier is being received, noise at the output of the detector stage in IC3 is amplified and band-pass filtered by the noise amp section of IC3, then passes through the noise adjust VR (VR8) to CPU. The resulting DC voltage is applied to pin 88 of main CPU IC19 (M30624FGAGP), which compares the squelch threshold level to that which set by the font panel VHF SQL knob.

While no carrier is received, pin 55 of IC19 remains "high," turning on the squelch switch Q108 (DTC363EK) to disable audio output from the speaker.

7) UHF Squelch Control

When no UHF carrier is being received, noise at the output of the detector stage in IC5 is amplified and band-pass filtered by the noise amp section of IC5, then passes through the noise adjust VR8 to cpu. The resulting DC voltage is applied to pin 90 of main CPU IC19, which compares the squelch threshold level to that which set by the front panel UHF SQL knob.

While no carrier is received, pin 56 of IC19 remains "high" turning the squelch switch Q109 (DTC363EK) to disable audio output from the speaker.

8) Transmit Signal Path

The speech signal from the microphone passes through the MIC jack CN601 to AF amplifier IC601 (M5218FP) on the FRONT UNT. The amplified speech signal is subjected to amplitude limiting by IC601 (M5218FP), then passes through the Front interface jacks CN602 and CN2 to MAIN Unit. On the MAIN UNIT, the speech signal passes through the audio mute switch IC7 (TC4066F), MIC gain control VR5 and buffer amplifier IC1 (NJM2902V-C) and a low-pass filter network at IC1 (NJM2902V-A) to deviation control VR3 (for VHF Tx audio) or VR4 (for UHF Tx audio).

9) VHF Transmit Signal Path

The adjusted speech signal from VR3 is delivered to VHF VCO Q9, which frequency modulates the transmitting VCO D6 (1SV278).

The modulated transmit signal passes through buffer amplifier Q7 (2SC5066), a low-pass filter network, and another buffer amplifier Q3 (2SC5226) to another low-pass filter network.

The filtered transmit signal is applied to the Pre-Drive amplifier Q2 (2SK3074) and Drive amplifier Q1 (2SK2975), then finally is amplified by Power amplifier Q4 (RD70HV1) up to 50 Watts. This three stage power amplifier's gain is controlled by the APC circuit.

The 50-Watt RF signal passes through a low-pass filter network, antenna switch D1 (XB15A407), and another low-pass filter network, and then is delivered to the ANT jack.

10) UHF Transmit Signal Path

The adjusted speech signal from VR4 is delivered to UHF VCO Q29 which frequency modulates the transmitting VCO D35 (1SV278).

The modulated transmit signal passes through buffer amplifiers Q28 (2SC5066) and Q7 (2SC5226) to a high-pas filter network.

The filtered transmit signal is applied to the Pre-Drive amplifier Q2 (2SK3074) and Drive amplifier Q1 (2SK2975), then finally is amplified by Power amplifier Q4 (RD70HV1) up to 35 Watts. This three stage power amplifier's gain is controlled by the APC circuit.

The 35-Watt RF signal passes through a high-pass filter network, antenna switch D12 and D13 (UM9401F), low-pass filter and high-pass filter networks, and then is delivered to the ANT jack.

11) VHF Tx APC Circuit

A portion of the power amplifier output is rectified by D8 (MA4S713), D9 (MA4S713) and Q12 (2SC4081), then delivered to APC IC1 (NJM2902V-D) as a DC voltage which is proportional to the output level of the power amplifier.

The APC IC1 compares the rectified DC voltage from the power amplifier and the reference voltage from the main CPU IC19, producing a control voltage for the Automatic Power Controller Q8 (RN2107) and Q11 (RN1107) which regulates supply voltage to the Pre-Drive amplifier Q2, Drive amplifier Q1, and Power amplifier Q4, so as to maintain stable output power under varying antenna loading conditions.

12) UHF Tx APC Circuit

A portion of the power amplifier output is rectified by D9 (M44S713), D22 (MA4S713) and Q12 (2SC4081), then delivered to APCD IC1 (NJM2902V-D) as a DC voltage which is proportional to the output level of the power amplifier.

The APC IC1 compares the rectified DC voltage from the power amplifier and the reference voltage from the main CPU IC19, producing a control voltage for the Automatic Power Controller Q8 (RN2107) and Q11 (RN1107) which regulates supply voltage to the Pre-Drive amplifier Q2, Drive amplifier Q1, and Power amplifier Q4, so as to maintain stable output power under varying antenna loading conditions.

13) VHF PTT Circuit

When the PTT switch is pressed, pin 4 of front CPU IC604 (M38503M) goes "LOW," which sends the "PTT" command to the main CPU, IC19. When it receives the "PTT" command, pin71 of Q19 goes "high" to control local switch D5 (DAN235E), filter switch D2, D3, TX switch D17 (DAN235E), and APC switch Q8/Q11, which activates the VHF Tx circuit. Meanwhile, pin 69 of IC19 goes "low," which disables the VHF Rx circuit.

14) UHF PTT Circuit

When the PTT switch is pressed, pin 4 of FICront CPU IC604 (M38503M) goes "LO" which sends the "PTT" command to the main CPU, IC19, When it receives the "PTT" command, pin72 of IC19 goes "high" to controls local switch D5, filter switch D2, D3, TX switch D17 and APC switch Q8/Q11, which activates the UHF Tx circuit. Meanwhile, pin 70 of Q19 goes "low," which disables the UHF Rx circuit.

15) VHF PLL

A portion of the output from the VHF VCO Q9 (2SK508) passes through buffer amplifiers Q7 (2SC5066) and Q5 (2SC5066) to the programmable divider section of the PLL IC IC2 (M64076AGP), which divides the frequency according to the frequency dividing data from the main CPU, IC19. It is then sent to the phase comparator.

The 21.25 MHz frequency of the reference oscillator circuit, made up of TCXO X1, is divided by the reference frequency divider section of IC2 into 4250 or 3400 parts to become 5 kHz or 6.25 kHz comparative reference frequencies, which are utilized by the phase comparator.

The phase comparator section of IC2 compares the phase between the frequency-divided oscillation frequency of the VCO circuit and comparative frequency, and its output is a pulse corresponding to the phase difference.

This pulse is integrated by the charge pump and loop filter of IC2 into a control voltage (VCV) to control the oscillation frequency of the VHF VCO Q9.

16) UHF PLL

A portion of the output from the UHF VCO Q29 (2SK508) passes through buffer amplifier Q28 (2SC5066) and Q39 (2SC5066) to the programmable divider section of the PLL IC IC2 (M64076AGP), which divides the frequency according to the frequency dividing data from the main PU IC2. It is then sent to the phase comparator.

The 21.25 MHz frequency of the reference oscillator circuit, made up of TCX0 X1, is divided by the reference frequency divider section of IC2 into 4250 or 3400 parts to become 5 kHz or 6.25kHz comparative reference frequencies, which are utilized by the phase comparator.

The phase comparator section of IC2 compares the phase between the frequency-divided oscillation frequency of the VCO circuit and comparative frequency, and its output is a pulse corresponding to the phase difference.

This pulse is integrated by the charge pump and loop filter of IC2 into a control voltage (VCV) to control the oscillation frequency of the UHF VCO Q29.

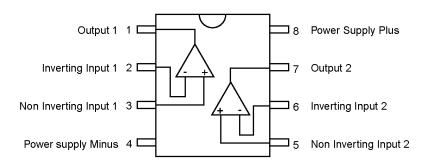
17) Power-on Circuit

When the POWER switch is turned on, pin 18 of man CPU IC19 goes "low." When pin 18 of IC19 goes "low," pin 79 of IC19 goes "high" to activate the power switches Q63 (2SB1386) and Q74 (2SC4081), which supply the DC power to the radio.

SEMICONDUCTOR DATA

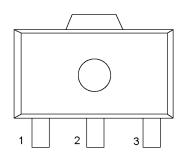
1) M5218FP (XA0068)

Dual Low **N**oise Operational Amplifiers



2) NJM78L05UA (XA0098)

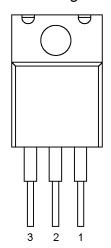
5V Voltage Regulator



- 1. OUTPUT
- 2. COMMON
- 3. INPUT

3) NJM7808FA (XA0102)

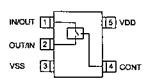
8V Voltage Ragulator Pin Assignment

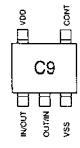


- 1. OUTPUT
- 2. COMMON
- 3. INPUT

4) TC4S66F (XA0115)

Bilateral Switch

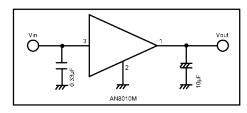


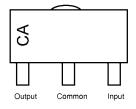


5) AN8010M (XA0119)

10V Voltage Regulator

Test Circuit

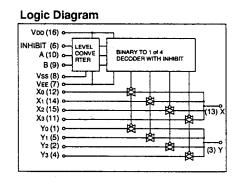


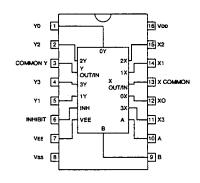


AN8010M

6) BU4052BF (XA0236)

Analog Multiplexer/Demultiplexer





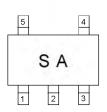
Truth Table

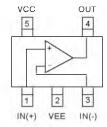
INHIBIT	Α	В	ON SWITCH
L	L	L	X0 Y0
L	Н	L	X1 Y1
L	L	н	X2 Y2
L	н	Н	X3 Y3
н	X	Х	NONE

X: Don't Care

7) TA75S01F (XA0332)

Operational Amplifiers





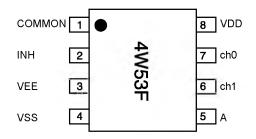
8) TC4W53FU (XA0348)

Multiplexer/Demultiplexer

Function Table

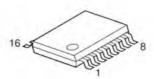
Contro	ol input	ON channel
INH	Α	ON Charmer
L	L	ch0
L	Н	ch1
Н	*	NONE

^{*} Don't Care

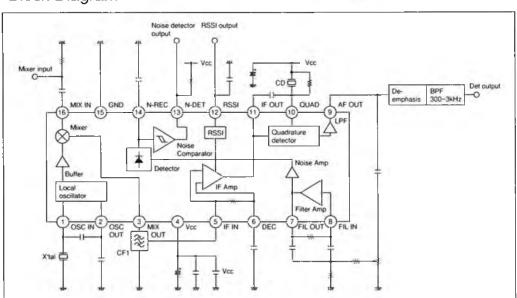


9) TA31136FN (XA0404)

Low Power FM IF

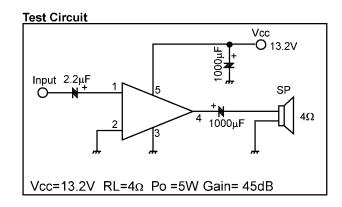


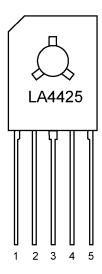
Block Diagram



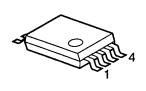
10) LA4425A (XA0410)

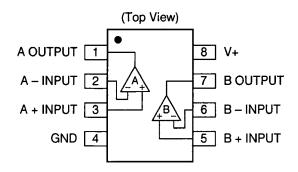
5W Audio Power Amplifiers





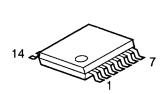
11) NJM2904V (XA0573)

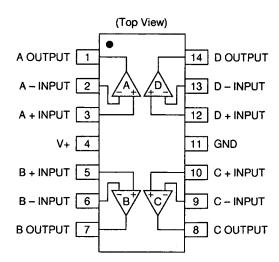




12) NJM2902V-TE1 (XA0596)

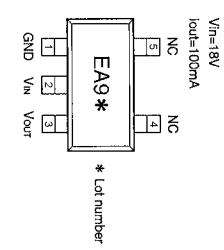
Quad Single Supply Operational Amplifier

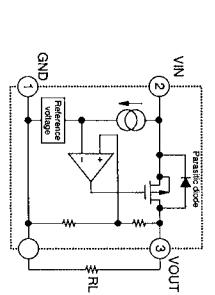




13) S-80845ALMP-EA9-T2 (XA0620)

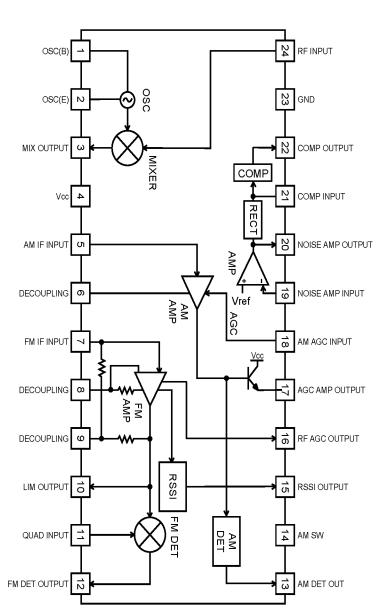
Voltage Detector





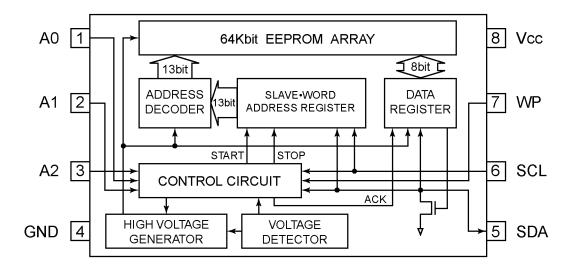
14) TK10931V (XA0666)

Pin Assignment / BLOCK Diagram (Top View)

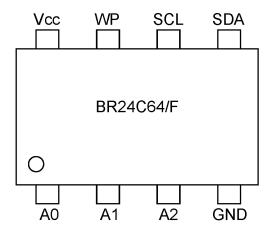


15) BR24C64F-E2 (XA0669)

EE-P ROM
Block Diagram

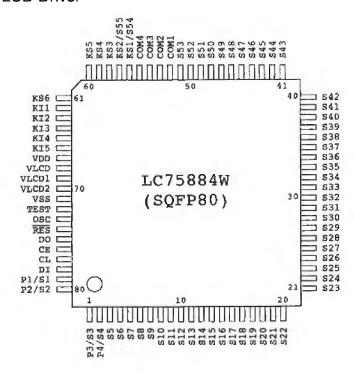


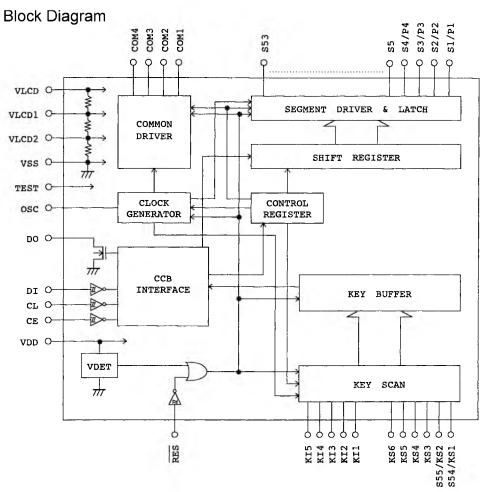
Pin Assignment



16) LC75884W (XA0899)

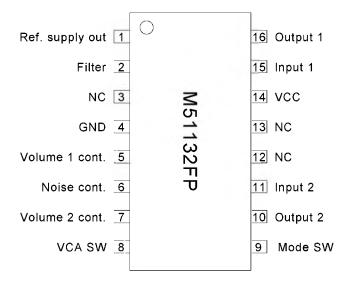
LCD Driver





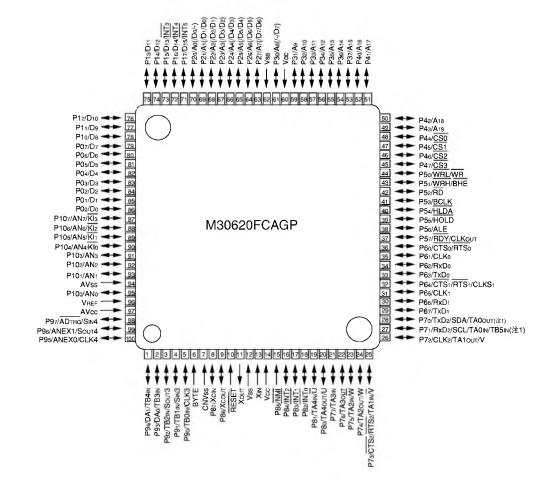
17) M51132FP (XA0900)

2ch Electronic Volume



18) M30620FCAGP (XA0913/XA0949)

Main CPU



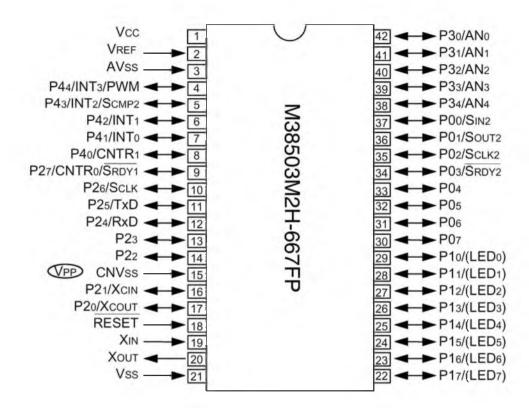
Terminal Function of Main CPU

No.	Pin Name	Function	I/O	Logic	up	Description
1	P94/DA1	TONE	0	D/A		CTCSS tone output/DCS output
2	P93/DA1	APC	-	D/A		Power output control
		DATA	$\frac{\circ}{\circ}$	Pulse		Serial data output for PLL IC
3	P92	STB	$\frac{\circ}{\circ}$	Pulse		Strobe for PLL IC
4	P91	CLK	$\frac{\circ}{\circ}$	Pulse		
5	P90	BYTE	-	Puise		Seriai clock output for PLL IC GND
6	BYTE		- 	H		
7	CNVss	CNVss		П		Witer control
8	P87	-	0			-
9	P86	RESET	0	 -		Poort input
10	RESET		0	<u> </u>		Reset input
11	Xout	XOUT				Main clock output
12	Vss	VSS				GND Main algely innert
13	Xin	XIN				Main clock input
14	Vcc	VCC		A - (1) - 1-1-1-		CPU power terminal
	P85	NMI	<u> </u>	Activ high		Interruption
16	P84	BU		L		Backup signal detection input
17	P83	SEC	<u> </u>	Activ high		Aleam(SCR) sinal input
18	P82	PSW	<u> </u>	L		Power switch input
-	P81	CLKS	0	Activ high		CPU clock-shift output
20	P80	MVRC	0	Pluse		Main volume control
21	P77	LAMP	<u></u> _	<u> L</u>	up	Lighting color selection (H:2color)
22	P76	SVRC	0	Pulse		Sub volume control
23	P75	-	0	<u> </u>		
	P74	TUV	0	Pulse		144MHz Tuning-voltage control
	P73	-	0	<u> </u>		
	P72	TUU	0	Pulse		430MHz Tuning-voltage control
	P71	RXD2	<u> </u>	Pulse		Serial Communication port for Clone
	P70	TXD2	0	Pulse		Serial Communication port for Clone
29	P67	TXD1	<u> </u>	Pulse		Serial Communication port for TNC
	P66	RXD1	<u> </u>	Pulse		Serial Communication port for TNC
31	P65	SCLK	0	Pulse		Witer control
32	P64	BUSY	0	Pulse		Witer control
33	P63	TXD	0	Pulse		Serial Communication port for Front CPU
34	P62	RXD	<u> </u>	Pulse		Serial Communication port for Front CPU
	P61	SCL	0	Pulse		Serial clock output for EEPROM
36	P60	SDA	I/O	Pulse		Serial dara output for EEPROM
	P57	DUD		Activ low		Digital unit detect
	P56	SCR		Activ low		Ready sigunal for digital unit
	P55	EPM	<u> </u>	Activ low		Witer control
	P54	PTTM	1	Activ low	up	PTT input for TNC
	P53	T5	<u> </u>	Activ low		TX power output ON/OFF
	P52	SQC	0	Activ low		Squelch control for TNC
43	P51	STBD	0	Pulse		Strobe for Digital unit
44	P50	DSQ	<u> </u>	Activ high		Squelch signal input for Digital unit
	P47	TNCB	0	Activ high		Power switch ON/OFF for TNC
	P46	VVCS	0	Activ high		VHF Main VCO ON/OFF
47	P45	UVCS	0	Activ high		UHF Main VCO ON/OFF
48	P44	DCSW	0	Activ high		DCS switch
49	P43	C/S	0	Activ low		Digital/TNC mode ON/OFF
-	P42	VAD	0	Activ high		VHF digital ON/OFF
51	P41	UAD	0	Activ high		UHF digital ON/OFF
	P40	M/S	0	Activ high		MAIN/SUB band select
	P37	WIDE	0	Activ low		Wide mode select
54	P36	NAR	0	Activ low		Narrow mode select
	P35	MUTV	0	Activ low		VHF AF mute signal output
56	P34	MUTU	<u> </u>	Activ low		VHF AF mute signal output

E 7	Inaa	XBR	0	Activ high	XBR mute signal
57 58	P33	DCSV	 	Activ high	VHF DCS switch
	P32	DCSU	 	Activ high	UHF DCS switch
59 60	P31	VCC	\vdash	Activ High	CPU power terminal
	Vcc	SCRB	0	Activ low	Power output for Aleam
61	P30	VSS		ACTIV TOW	GND
62	Vss	VMMT	- 0	A otiv (biodb	
63	P27		8	Activ high	VHF mod mute output
64	P26	UMMT		Activ high	UHF mod mute output
65	P25	MMUT	0-	Activ low	Mic mute output
66	P24	ULV	ļ	Activ high	VHF unlock input
67	P23	ULU		Activ high	UHF unlock input
68	P22	AM	0	Activ high	AM mode ON/OFF
69	P21	5RV	0	Activ high	VHF RX power ON/OFF
70	P20	5RU	0	Activ high	UHF RX power ON/OFF
71	P17	5TV	0	Activ high	VHF TX power ON/OFF
72	P16	5TU	0	Activ high	UHF TX power ON/OFF
73	P15	14RS	0	Activ high	MAIN 144MHz power OM/OFF
74	P14	S43RS	0	Activ high	SUB 430MHz power ON/OFF
75	P13	FMS	0	Activ high	FM power ON/OFF
76	P12	43RS	0	Activ high	MAIN 430MHz power OM/OFF
77	P11	S14RS	0	Activ high	SUB 144MHz power ON/OFF
78	P10	87RS	0	Activ high	Ext band power ON/OFF
79	P07	5VS	0	Activ high	5V power ON/OFF
80	P06	C5S	0	Activ high	5V power ON/OFF
81	P05	ALAM	0	Activ low	AF mute for Aleam
82	P04	TB	0	Pulse	ART/Toneburst signal output
83	P03	BEP1	0	Pulse	Beep sound 1 output
84	P02	BEP2	0	Pulse	Beep sound 2 output
85	P01		0		
86	P00	FAN	0	Activ high	Air FAN power ON/OFF
87	P107/AN7	SMTV		A/D	VHF S-meter signal input
88	P106/AN6	SQLV		A/D	VHF noise input for squelch
89	P105/AN5	SMTU		A/D	UHF S-meter signal input
90	P104/AN4	SQLU		A/D	UHF noise input for squelch
91	P103/AN3	TINV		A/D	VHF CTCSS/DCS tone input
92	P102/AN2	TINU	I	A/D	UHF CTCSS/DCS tone input
93	P101/AN1	BAT	I	A/D	Power-supply voltage input
94	Avss	AVSS	-		AD converter Gnd
95	P100/AN0	BP1	ı	A/D	Band plan
96	Vref	VREF	-		AD converter ref. power
97	Avcc	AVCC	-	 	AD converter power
98	P97	BP2	I	 	Ext.Band plan
99	P96/ANEX1	BP3	i	 	CH Band plan (L:CH)
	P95/ANEXO		i	A/D	PA Temperature detection
100	II JOIANEAU	L O		, , , ,	1.7. Temperature detection

19) M38503M2H667FP (XA0914)

Front CPU

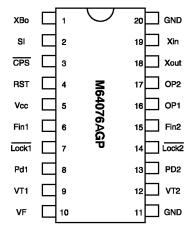


Terminal Function of Front CPU

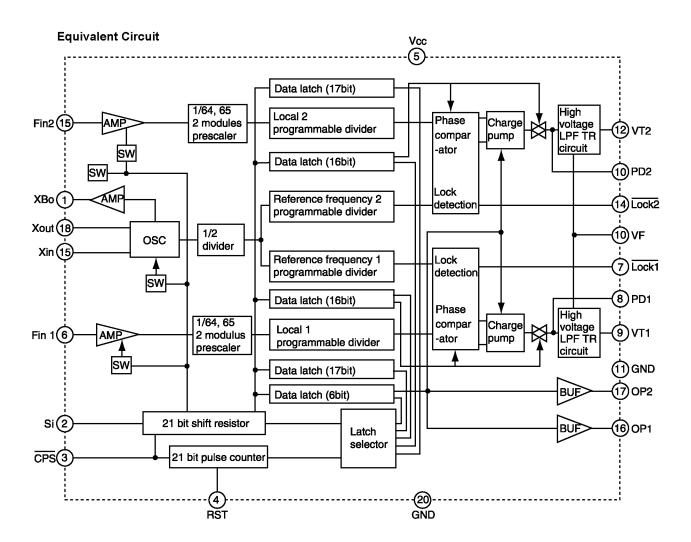
No.	Pin Name	Function	I/O	Logic	Description
1	Vcc	VCC			
2	Vref	VREF			
3	Avss	AVSS			
4	P44	PTT	I	Activ low	PTT key input
5	P43	RE1	I	Pulse	Dial (rotary encoder) input
6	P42	UP	ı	Activ low	Key input (UP)
7	P41	DOWN		Activ low	Key input (DOWN)
8	P40	FUNC		Activ low	Key input (FUNC)
9	P27	SQL		Activ low	Key input (SQL)
10	P26	H/L		Activ low	Key input (H/L)
11	P25/TxD	RXD1		Pulse	Serial Communication port for Main CPU
12	P24/RxD	TXD1	0	Pulse	Serial Communication port for Main CPU
13	P23	TS/DCS		Activ low	Key input (TS/DCS)
14	P22	MHz		Activ low	Key input (MHz)
15	CNVss	CNVSS			
16	P21	CALL		Activ low	Key input (CALL)
17	P20	BAND		Activ low	Key input (BAND)
18	RESET	RESET	- 1	Activ low	Reset input
19	Xin	XIN		Pulse	CPU clock input
20	Xout	XOUT	0		CPU clock output
21	Vss	GND			
22	P17	V/M	ı	Activ low	Key input (UP)
23	P16	RED	0	Activ high	Lighting color ON/OFF (RED)
24	P15	GREEN	0	Activ high	Lighting color ON/OFF (YELLOW)
25	P14	TXLED	0	Activ high	TX LED ON/OFF
26	P13	MRLED	0	Activ high	MAIN RX LED ON/OFF
27	P12	SRLED	0	Activ high	SUB RX LED ON/OFF
28	P11	DIM1	0	Activ high	Dommer control 1
29	P10	DIM2	0	Activ high	Dimmer control 2
30	P07				
31	P06				
32	P05	DO	I	Pulse	Data input for LCD driver IC
33	P04	CE	0	Activ high	Strobe for LCD driver IC
34	P03	CL	0	Pulse	Clock output for LCD driver IC
35	P02	DI	0	Pulse	Data output for LCD driver IC
36	P01	MUTE	0	Activ high	-
37	P00	RE2	I		Dial (rotary encoder) input
38	P34/AN4				
39	P33/AN3				
40	P32/AN2				
41	P31/AN1	MVR	I	A/D	MAIN volume voltage input
42	P30/AN0	SVR	I	A/D	SUB volume voltage inpput

20) M64076AGP (XA0915)

Dual PLL Synthesizer



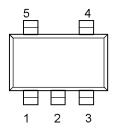
Parameter	Symbol	Condition	Min.	Тур.	Max.	Unit
Power supply voltage	Vcc	Fin=80~520MHz Vin=-10dBm	2.7	ı	5.5	V
LPF supply voltage	VF		-	9	12	٧
Local oscillator input level	Vin	Fin=80~520MHz	-20	1	-4	dBm
Local oscillator input frequency	Fin	Vin=-20~-4dBm Vcc=2.7~5.5V	80	-	520	MHz
Xin input level	Vxin	Vcc=2.7~5.5V Fxin=10~25MHz Sine wave	0.4	-	1.4	Vp-p
Xin input frequency	Fxin	Vcc=2.7~5.5V Vxin=0.4~1.4Vp-p	10	-	25	MHz



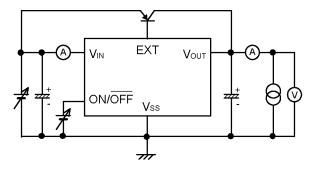
21) S-816A50AMC (XA0925)

Voltage Regulator

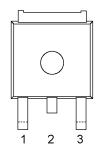
Top View



No.	Terminal
1	EXT
2	VSS
3	ON/OFF
4	VIN
5	VOUT



22) NJM78M05DL1A (XA0947)



Voltage Regulator

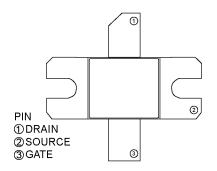
- 1.INPUT
- 2.GND
- 3.OUTPUT

23) Transistor, Diode, and LED Outline Drawings

XB15A407AGB	UDZ5. 1B	MA742	188355	DSA3A1	HVU359TRF	MA2S728-TX
XD0013	XD 0165	XD0250	XD0254	XD0131	XD0314	XD0315
△ M17	日 A2 日	本 M1U	□		S A	H → B H
MA2S077-TX XD0319	DAN235E-TL XD0320	MA2S111-TX XD0323	HSU277TRF XD0331	ISS362 TE85L XD0338	ISS390 TE61 XD0342	UM9401F XD0373
5 4	A A	A	3	T C3	 	— 4
ISV278 XD0374	MA4S713-TX XD0375	ISV282 XD0376	MAZS270HL XD0377	2SK508 XE0010	3SK131V12 XE0028	2SK2975-T11-A XE0038
77 4	7 M1N A	TD -	22	G H K52 H H S D	G1 G2 H H V12 D S	D K2975 S
2SK3074 XE0044	3SK240 XE0048	VRPG3312X XL0051	FA1111C XL0069	FA1111C XL0077	FA1111C XL0091	MPG338S XL0092
WA	G1 G2	GR RED	+	+	¥ 🗔	∏ _K
2SB1132 XT0061	2SC4081 XT0095	2SA1736 XT0099	2SC5066-O XT0138	2SC5226 XT0146	2SC4808-TX. AR XT0171	2SC4618TLP XT0172
C (DPD B	C BR B B E	LD B C E	C M H H B E	C LN4 B E	С ЗМ В Е	C II AP II B E
2SB1386 XT0190	DTC363EK XU0160	DTD114EK XU0173	RN2107 TE85L XU0192	RN1107 TE85L XU0193	RN1111 XU0197	XP03383-TX XU0202
BHQ B C E	C H H27 H H B E	F24 B E	YM H H B E	XH B E	XM XM B E	5 4 DV
						2 DTr1

RD70VHF1 (XE0047)

Nch MOS FET



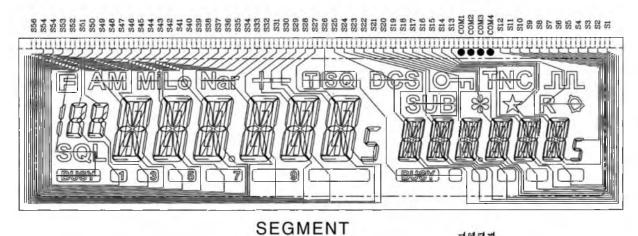
ABSOLUTE MAXIMUM RATING

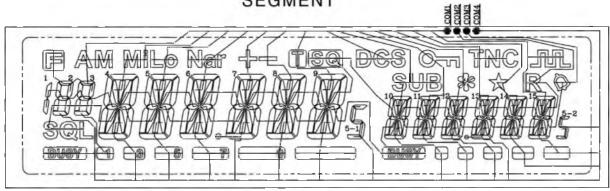
Symbol	Test conditions	Rating	Unit
Pch	Tc=25°C	150	W
VDSS	Vgs=0V	30	>
VGSS	Vds=0V	±20	٧
Tj		+175	°C
Tstg		-40 ~ +125	°C

ELECTRICAL CHARACTERISTIC(Ta=25°C)

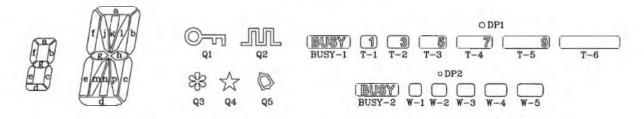
Parameter	Symbol	Test conditions	Limits		Unit
Farameter	Symbol	lest conditions	Min	Max	
Saturated drain current	IDSS	Vds=17V, Vgs=0V		300	μΑ
Gate to source leakage current	IGSS	Vds=10V, Vgs=0V		5	μΑ
Threshold voltage	Vth	Vds=12V, lds=1ma	1.3	2.3	V
Output power 1	Po1	f=175MHz, Pin=6W	70		W
Drain officiency 1	ηD1	Vds=12.5V	55		%
Diam officiency i	יטוי ן	lds(idle)=2.0A	33		70
Output power 2	Po2	f=520MHz, Pin=10W	50		w
Output power 2		Vds=12.5V	30		U VV
Drain officiency 2	ηD2	lds(idle)=2.0A	50		%

24) LCD Connection





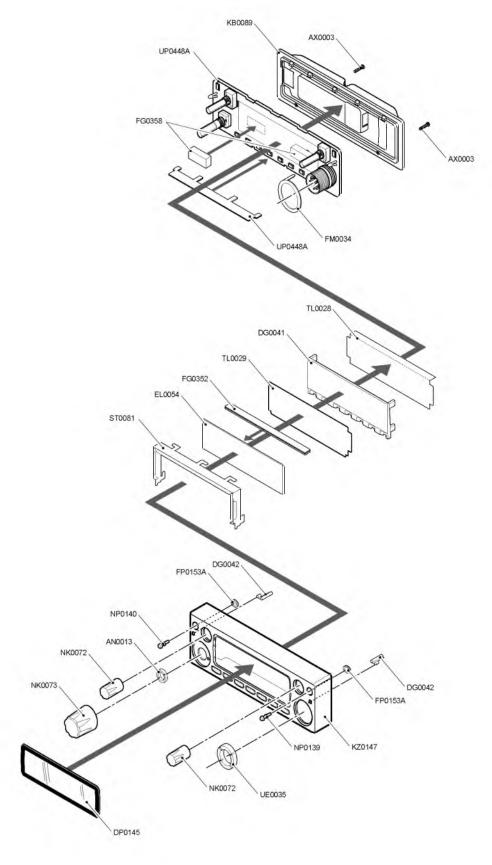
COMMON



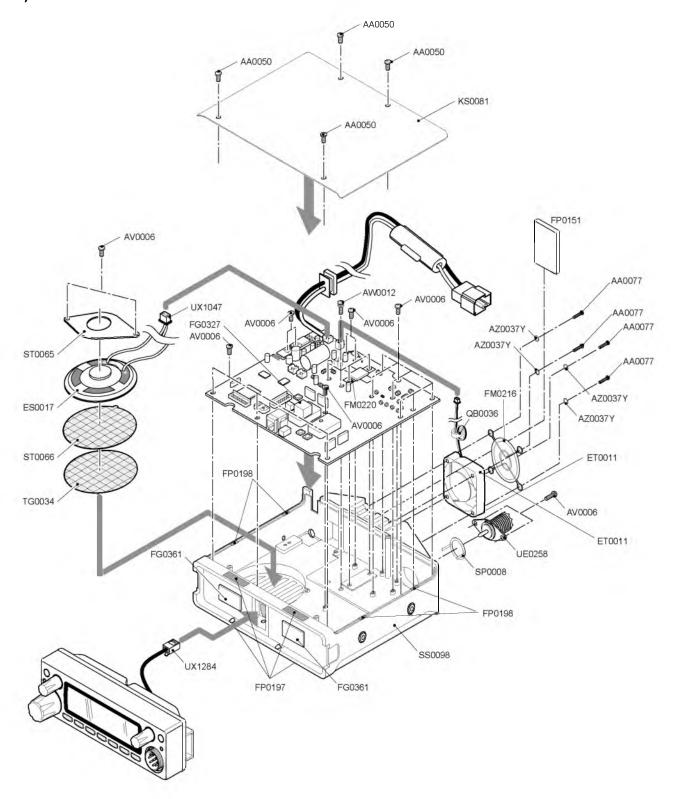
	COM1	COM2	COM3	COM4
S1	10k	101	10h	10p
S2	10a	10b	10c	W-2
S3	111k	111	11h	11p
S4	11a	11b	11c	11p W-3
S5	12k	121	12h	12p
S6	12a	12b	12c	DP2
\$7	13k	131	13h	13p
S8	13a	13b	13c	W-4
S9	14k	141	14h	14p
S10	14a	14b	14c	14p W-5
S11	15k	15	15h	15p
S12	15a	15b	15c	5-2
S12 COM4	-	-	-	COM4
COM3	-	-	COM3	-
COM2	-	COM2	-	-
COM1	COM1	-	-	-
COM1 S13	Q2	R	Q5	-
S14	15j	15g	15m	15n
S15	Q4	15f	15e	15d
S16	14j	14g	14m	14n
S17	TNC	14f	14e	14d
S18	13i	13g 13f	13m	13n
S19	Q3	13 Ĭ	13e	13d
S20	12j	12g 12f	12m	12n
S21	Q1	12f	12e	12d
S22	11j	11g 11f	11m	11n
S23	SUB	11 1	11e	11d
S24	10j	10g 10f	10m	10n
S25	DCS	10 f	10e	10d
\$24 \$25 \$26	Т	SQ	BUSY-2	W-1
\$27 \$28	9j	9g	9m	9n
S28	minus(-)	9f	9r	9r
S29	8j	8g	8m	8n
S30	plus(+)	8f	8e	8e
S31	7j	7g 7f	7m	7n
\$32 \$33	Nar		7e	7e
S33	6 <u>j</u>	6g	6m	6n
S34	Lo	6ť	6e	6e
S35	5 <u>j</u>	5g 5f	5m	5n
S36	Mj		5e	5e
S37	<u>4j</u>	4g 4f	4m	4n
S38	AM	4f	4e	4d
S39	3a	3f	3e	3d
S40	<u>2</u> a	2f	2e	2d
S41	F	1b,c	SQL	BUSY-1
S42	2b	2g	2c	T-1
S43	3b	3g	3c	T-2
S44	4k	4	4h	4p
S45	4a	4b	4c	T-3
S46	5k	51	5h	5p
S47	5a	5b	5c	T-4
S48	6k	6l	6h	6p
S49	6a	6b	6c	DP1
S50	7k	71 7h	7h	7p
S51 S52	7a	7b	7c	T-5
552	8k	81	8h	8p
S53	8a	8b	8c	T-6
S54	9k	9l	9h	9p
S55 S56	9a	9b	9c	5-1
1 556	N.C.	_	_	_

EXPLODED VIEW

1) Front View



2) Bottom View



PARTS LIST

Front Unit

Ref.	Parts No.	Description	Parts Name	Q	_
No.	1 41.0110.	Decempoor	, and radino	(T)	(E)
C601	CU3535	Chip C.	GRM36B102K50PT	1	1
C602	CS0424	Chip Tantalum	TMCMA1C106MTR	1	1
C603	CU3523	Chip C.	GRM36CH101J50PT	1	1
C604	CU0108	Chip C.	LMK212BJ105KG	1	1
C605	CU3551	Chip C.	GRM36B223K16PT	1	1
C606	CU3535	Chip C.	GRM36B102K50PT	1	1
C607	CS0424	Chip Tantalum	TMCMA1C106MTR	1	1
C608	CU3535	Chip C.	GRM36B102K50PT	1	1
C609	CU0108	Chip C.	LMK212BJ105KG	1	1
C610	CU3535	Chip C.	GRM36B102K50PT	1	1
C611	CU3535	Chip C.	GRM36B102K50PT	1	1
C612	CU3535	Chip C.	GRM36B102K50PT	1	1
C613	CU3535	Chip C.	GRM36B102K50PT	1	1
C614	CU3535	Chip C.	GRM36B102K50PT	1	1
C615	CS0424	Chip Tantalum	TMCMA1C106MTR	1	1
C616	CU3535	Chip C.	GRM36B102K50PT	1	1
C617	CS0424	Chip Tantalum	TMCMA1C106MTR	1	1
C618	CU3533	Chip C.	GRM36B681K50PT		1
C619	CU3535	Chip C.	GRM36B102K50PT		1
C620	CU3535	Chip C.	GRM36B102K50PT		1
C621	CU3535	Chip C.	GRM36B102K50PT		1
C622	CU3535	Chip C.	GRM36B102K50PT		1
C623	CU3543	Chip C.	GRM36B472K25PT		1
C624					1
	CU3543	Chip C.	GRM36B472K25PT GRM36B223K16PT		1
C625	CU3551	Chip C.			
C626	CU3023	Chip C.	C1608CH1H101JT-AS	1	1
C627	CU3023	Chip C.	C1608CH1H101JT-AS	1	1
CN601	UE0035	Connector	FM214-8SMPY	1	1
CN602		Jack	HJC0163-01-022	1	1
	UE0456	Connector	PI28A08M	1	1
D601	XD0254	Chip Diode	1SS355 TE17	1	1
D606	XD0254	Chip Diode	1SS355 TE17	1	1
D611	XL0069	Chip LED	FA1111C-TR	1	1
D612	XL0091	Chip LED	FY1111C-433-TR	1	1
D613	XL0069	Chip LED	FA1111C-TR	1	1
D614	XL0092	LED	MPG3338S	1	1
D618	XL0051	LED	VRPG3312X	1	1
D620	XD0254	Chip Diode	1SS355 TE17	1	1
IC601	XA0068	IC	M5218AFP/600E	1	1
IC602	XA0947	IC	NJM78M05DL1A-TE1	1	1
IC603	XA0899	IC	LC75884W	1	1
IC604	XA0914	IC	M38503M2H667FP	1	1
LCD60	EL0054	LCD	LCD DR620	1	1
Q601	XT0095	Chip Transistor	2SC4081 T106R	1	1
Q602	XT0095	Chip Transistor	2SC4081 T106R	1	1
Q603	XU0193	Chip Transistor	RN1107 TE85L	1	1
Q604	XT0095	Chip Transistor	2SC4081 T106R	1	1
Q605	XU0193	Chip Transistor	RN1107 TE85L	1	1
Q606	XU0192	Chip Transistor	RN2107 TE85L	1	1
Q607	XU0173	Chip Transistor	DTD114EK-T146	1	1
Q608	XU0173	Chip Transistor	DTD114EK-T146	1	1
Q609	XT0095	Chip Transistor	2SC4081 T106R	1	1
Q610	XU0193	Chip Transistor	RN1107 TE85L		1
Q611		Chip Transistor	2SC4081 T106R	1	1
	LX LUU95		, 100 1 1 1001 \		
	XT0095 XU0193	1	RN1107 TE85I	1	1
Q612	XU0193	Chip Transistor	RN1107 TE85L	1	1
		1	RN1107 TE85L ERJ2GEJ224X ERJ2GEJ103X	1 1 1	1 1 1

Ref.	Parts No.	Description	Parts Name	Q	ty
No.	Faits NO.	Description	Faits Name	(T)	(E)
R604	RK3538	Chip R.	ERJ2GEJ102X	1	1
R605	RK3560	Chip R.	ERJ2GEJ683X	1	1
R606	RK3543	Chip R.	ERJ2GEJ272X	1	1
R607	RK3550	Chip R.	ERJ2GEJ103X	1	1
R608	RK3550	Chip R.	ERJ2GEJ103X	1	1
R609	RK3538	Chip R.	ERJ2GEJ102X	1	1
R610	RK3550	Chip R.	ERJ2GEJ103X	1	1
R611	RK3550	Chip R.	ERJ2GEJ103X	1	1
R612	RK3526	Chip R.	ERJ2GEJ101X	1	1
R613	RK3522	Chip R.	ERJ2GEJ470X	1	1
R614	RK3501	Chip R.	ERJ2GE0R00X	1	1
R615	RK3546	Chip R.	ERJ2GEJ472X	1	1
R616	RK3550	Chip R.	ERJ2GEJ103X	1	1
R617	RK3546	Chip R.	ERJ2GEJ472X	1	1
R618	RK3550	Chip R.	ERJ2GEJ103X	1	1
R619	RK3550	Chip R.	ERJ2GEJ103X	1	1
R620	RK3550	Chip R.	ERJ2GEJ103X	1	1
R621	RK3550	Chip R.	ERJ2GEJ103X	1	1
R622	RK3550	Chip R.	ERJ2GEJ103X	1	1
R623	RK3550	Chip R.	ERJ2GEJ103X	1	1
R624	RK3550	Chip R.	ERJ2GEJ103X	1	1
R625	RK3550	Chip R.	ERJ2GEJ103X	1	1
R626	RK3550	Chip R.	ERJ2GEJ103X	1	1
R627	RK3550	Chip R.	ERJ2GEJ103X	1	1
R628	RK3550	Chip R.	ERJ2GEJ103X	1	1
R629	RK3550	Chip R.	ERJ2GEJ103X	1	1
R630	RK3546	Chip R.	ERJ2GEJ472X		1
R631	RK3550	Chip R.	ERJ2GEJ103X		1
R632	RK3530	Chip R.	ERJ2GEJ103X		1
		1 '			1
R633	RK3526	Chip R.	ERJ2GEJ101X		
R634	RK3526	Chip R.	ERJ2GEJ101X		1
R635	RK3558	Chip R.	ERJ2GEJ473X	1	1
R636	RK3538	Chip R.	ERJ2GEJ102X	1	1
R637	RK3538	Chip R.	ERJ2GEJ102X	1	1
R639	RK3026	Chip R.	MCR03EZHJ101	1	1
R640	RK3550	Chip R.	ERJ2GEJ103X	1	1
R641	RK3570	Chip R.	ERJ2GEJ474X	1	1
R642	RK3538	Chip R.	ERJ2GEJ102X	1	1
R643	RK3574	Chip R.	ERJ2GEJ105X	1	1
R645	RK3030	Chip R.	MCR03EZHJ221	1	1
R646	RK3534	Chip R.	ERJ2GEJ471X	1	1
R651	RK3530	Chip R.	ERJ2GEJ221X	1	1
R652	RK3530	Chip R.	ERJ2GEJ221X	1	1
R653	RK3535	Chip R.	ERJ2GEJ561X	1	1
R654	RK3535	Chip R.	ERJ2GEJ561X	1	1
R655	RK3528	Chip R.	ERJ2GEJ151X	1	1
R656	RK3535	Chip R.	ERJ2GEJ561X	1	1
R657	RK3528	Chip R.	ERJ2GEJ151X	1	1
R658	RK3550	Chip R.	ERJ2GEJ103X	1	1
R659	RK3550	Chip R.	ERJ2GEJ103X	1	1
R660	RK3026	Chip R.	MCR03EZHJ101	1	1
R661	RK3538	Chip R.	ERJ2GEJ102X	1	1
R662	RK3030	Chip R.	MCR03EZHJ221	1	1
R663	RK3538	Chip R.	ERJ2GEJ102X	1	1
R666	RK3538	Chip R.	ERJ2GEJ102X	1	1
R667	RK3538	Chip R.	ERJ2GEJ102X	1	1
R668	RK3538	Chip R.	ERJ2GEJ102X	1	1
R669	RK3538	Chip R.	ERJ2GEJ102X	1	1

Ref.	Parts No.	Description	Parts Name	Q	ty
No.	Paris No.	Description	Paris Name	(T)	(E)
RE601	UR0015	Dial	RH90N74E20-A90770	1	1
SW601	UU0015Z	Switch	EVQPPPA25	1	1
SW602	UU0015Z	Switch	EVQPPPA25	1	1
SW603	UU0015Z	Switch	EVQPPPA25	1	1
SW604	UU0015Z	Switch	EVQPPPA25	1	1
SW605	UU0015Z	Switch	EVQPPPA25	1	1
SW606	UU0015Z	Switch	EVQPPPA25	1	1
SW607	UU0015Z	Switch	EVQPPPA25	1	1
SW608	UU0015Z	Switch	EVQPPPA25	1	1
SW609	UU0015Z	Switch	EVQPPPA25	1	1
VR601	RV0035	Variable R.	EVUF2JFK4B14	1	1
VR602	RV0035	Variable R.	EVUF2JFK4B14	1	1
X601	XB0029	Ceramic OSC	EF0S4914E5	1	1
	TL0029		DIFFUSION SHEET	1	1
	FG0358		LCD CUSHION DR620	2	2
	ST0081		LCD HOLDER DR620	1	1
	DG0041		LCD LIGHT DR620	1	1
	FG0352		LCD RUBBER CONNECTOR	1	1
	FM0034		MIC GND PLATE	1	1
	FP0034		MIC SPACER DR110	1	1
	TL0028		REFLECTIVE SHEET	1	1

LED Unit

Ref.	Parts No.	Description	Parts Name	Q	ty
No.	Faits No.	Description	raits Name	(T)	(E)
D602	XL0077	Chip LED	FA1111C-732-TR	1	1
D603	XL0077	Chip LED	FA1111C-732-TR	1	1
D604	XL0077	Chip LED	FA1111C-732-TR	1	1
D605	XL0091	Chip LED	FY1111C-433-TR	1	1
D607	XL0077	Chip LED	FA1111C-732-TR	1	1
D608	XL0091	Chip LED	FY1111C-433-TR	1	1
D609	XL0077	Chip LED	FA1111C-732-TR	1	1
D610	XL0077	Chip LED	FA1111C-732-TR	1	1
D615	XL0091	Chip LED	FY1111C-433-TR	1	1
D616	XL0091	Chip LED	FY1111C-433-TR	1	1
D617	XL0091	Chip LED	FY1111C-433-TR	1	1
D619	XL0091	Chip LED	FY1111C-433-TR	1	1
R647	RK3028	Chip R.	MCR03EZHJ151	1	1
R648	RK3028	Chip R.	MCR03EZHJ151	1	1
R649	RK3028	Chip R.	MCR03EZHJ151	1	1
R650	RK3026	Chip R.	MCR03EZHJ101	1	1
R664	RK3026	Chip R.	MCR03EZHJ101	1	1
R665	RK3026	Chip R.	MCR03EZHJ101	1	1

Main Unit

Ref.	Parts No. Description		Parts Name	Q	ty
No.	Paris No.	Description	Paris Name	(T)	(E)
C1	CU3035	Chip C.	C1608JB1H102KT-AS	1	1
C3	CU3535	Chip C.	GRM36B102K50PT	1	1
C4	CU3031	Chip C.	C1608JB1H471KT-AS	1	1
C5	CU4008	Chip C.	GRM42-6CH070D500PT	1	1
C6	CU3019	Chip C.	C1608CH1H470JT-AS	1	1
C8	CU3035	Chip C.	C1608JB1H102KT-AS	1	1
C9	CU7046	Chip C.	UC232H0270C-T	1	1
C10	CU3035	Chip C.	C1608JB1H102KT-AS	1	1
C11	CU3035	Chip C.	C1608JB1H102KT-AS	1	1
C12	CU3057	Chip C.	C1608CH1H130JT-A	1	1
C13	CU3057	Chip C.	C1608CH1H130JT-A	1	1

Ref.				Q	ty
No.	Parts No.	Description	Parts Name	(T)	(E)
	0114000	01: 0	001110 0011101 150007		
C14	CU4023	Chip C.	GRM42-6CH101J500PT	1	1
C15	CU7052	Chip C.	UC232H0820F-T	1	1
C16	CU3507	Chip C.	GRM36CH060D50PT	1	1
C17	CU3018	Chip C.	C1608CH1H390JT-AS	1	1
C18	CU3535	Chip C.	GRM36B102K50PT	1	1
C19	CU3535	Chip C.	GRM36B102K50PT	1	1
C20	CU4023	Chip C.	GRM42-6CH101J500PT	1	1
C21	CU3535	Chip C.	GRM36B102K50PT	1	1
C22	CU3511	Chip C.	GRM36CH100D50PT	1	1
C23	CU3035	Chip C.	C1608JB1H102KT-AS	1	1
C26	CU3535	Chip C.	GRM36B102K50PT	1	1
1				1	
C27	CU3515	Chip C.	GRM36CH220J50PT		1
C29	CU3515	Chip C.	GRM36CH220J50PT	1	1
C30	CU3535	Chip C.	GRM36B102K50PT	1	1
C31	CU3535	Chip C.	GRM36B102K50PT	1	1
C32	CU3024	Chip C.	C1608CH1H121JT-AS	1	1
C33	CU3024	Chip C.	C1608CH1H121JT-AS	1	1
C35	CU4016	Chip C.	GRM42-6CH270J500PT	1	1
C36	CU4015	Chip C.	GRM42-6CH220J500PT	1	1
C38	CU4016	Chip C.	GRM42-6CH270J500PT	1	1
C39	CU4014		GRM42-6CH180J500PT	1	1
1		Chip C.			
C40	CU7050	Chip C.	UC232H0560F-T	1	1
C42	CU3513	Chip C.	GRM36CH150J50PT	1	1
C43	CU3518	Chip C.	GRM36CH390J50PT	1	1
C44	CU3515	Chip C.	GRM36CH220J50PT	1	1
C45	CU3035	Chip C.	C1608JB1H102KT-AS	1	1
C46	CU3001	Chip C.	C1608CH1H0R5CT-AS	1	1
C48	CU3001	Chip C.	C1608CH1H0R5CT-AS	1	1
C49	CU4013	Chip C.	GRM42-6CH150J500PT	1	1
C51	CU3511	Chip C.	GRM36CH100D50PT	1	1
1	CU0108			1	1
C52		Chip C.	LMK212BJ105KG		
C53	CU0108	Chip C.	LMK212BJ105KG	1	1
C54	CU3035	Chip C.	C1608JB1H102KT-AS	1	1
C55	CU3515	Chip C.	GRM36CH220J50PT	1	1
C56	CU3511	Chip C.	GRM36CH100D50PT	1	1
C57	CU4011	Chip C.	GRM42-6CH100J500PT	1	0
C57	CU4012	Chip C.	GRM42-6CH120J500PT	0	1
C58	CU3509	Chip C.	GRM36CH080D50PT	1	1
C59	CU3510	Chip C.	GRM36CH090D50PT	1	1
C60	CU3514	Chip C.	GRM36CH180J50PT	1	1
		Chip C.		1	
C61	CU3514		GRM36CH180J50PT		1
C62	CE0339	Electrolytic C.	16MV 10SWB+TS	1	1
C63	CU4015	Chip C.	GRM42-6CH220J500PT	1	1
C64	CU3535	Chip C.	GRM36B102K50PT	1	1
C65	CS0424	Chip Tantalum	TMCMA1C106MTR	1	1
C66	CU3503	Chip C.	GRM36CK020C50PT	1	1
C67	CU3535	Chip C.	GRM36B102K50PT	1	1
C68	CU3019	Chip C.	C1608CH1H470JT-AS	1	1
C69	CU3530	Chip C.	GRM36B391K50PT	1	1
C70	CE0339	Electrolytic C.	16MV 10SWB+TS	1	1
1				1	1
C71	CU3011	Chip C.	C1608CH1H100DT-AS		
C72	CU3012	Chip C.	C1608CH1H120JT-AS	1	1
C73	CU3015	Chip C.	C1608CH1H220JT-AS	1	1
C74	CU3035	Chip C.	C1608JB1H102KT-AS	1	1
C75	CU3514	Chip C.	GRM36CH180J50PT	1	1
C76	CU3514	Chip C.	GRM36CH180J50PT	1	1
C78	CU3531	Chip C.	GRM36B471K50PT	1	1
C79	CU3535	Chip C.	GRM36B102K50PT	1	1
C80	CU3535	Chip C.	GRM36B102K50PT	1	1
C81	CU3511	Chip C.	GRM36CH100D50PT	1	1
I					
C82	CU3547	Chip C.	GRM36B103K16PT	1	1
C83	CU3535	Chip C.	GRM36B102K50PT	1	1
C84	CU3035	Chip C.	C1608JB1H102KT-AS	1	1
C85	CU3035	Chip C.	C1608JB1H102KT-AS	1	1

Ref. No.	Parts No.	Description	Parts Name	_	ty (E)	Ref. No.	Parts No.	Description	Parts Name	(T)	Ωty (E)
C86	CU3535	Chip C.	GRM36B102K50PT	(T) 1	(E)	C151	CU3523	Chip C.	GRM36CH101J50PT	1	1
C87	CU3035	Chip C.	C1608JB1H102KT-AS	'	1	C151	CU3523	Chip C.	GRM36B103K16PT	1	
288 288	CU3035		C1608JB1H102KT-AS		1	C152	CU3512		GRM36CH120J50PT	1	
000 089	CU3033	Chip C.			1	C153	CU3007	Chip C.	C1608CH1H060CT-A	1	
		Chip C.	C1608JB1C104KT-N	1 '				Chip C.			
C91	CU3502	Chip C.	GRM36CK010C50PT	1 1	1	C155	CU3535	Chip C.	GRM36B102K50PT	1	1
C92	CU3547	Chip C.	GRM36B103K16PT		1	C156	CU3023	Chip C.	C1608CH1H101JT-AS	1	1
C93	CU3035	Chip C.	C1608JB1H102KT-AS	1	1	C157	CU3006	Chip C.	C1608CH1H050CT-AS	1	1
C94	CU3511	Chip C.	GRM36CH100D50PT	1	1	C159	CU3506	Chip C.	GRM36CH050C50PT	1	1
C95	CU3111	Chip C.	C1608JB1C104KT-N	1	1	C160	CU3007	Chip C.	C1608CH1H060CT-A	1	1
C96	CU3035	Chip C.	C1608JB1H102KT-AS	1	1	C161	CU3035	Chip C.	C1608JB1H102KT-AS	1	1
C97	CU3535	Chip C.	GRM36B102K50PT	1	1	C162	CU3508	Chip C.	GRM36CH070D50PT	1	1
C98	CS0220	Chip Tantalum	TMCMA1C225MTR	1	1	C163	CU3504	Chip C.	GRM36CJ030C50PT	1	1
C99	CU3035	Chip C.	C1608JB1H102KT-AS	1	1	C164	CU3547	Chip C.	GRM36B103K16PT	1	1
C100	CU3035	Chip C.	C1608JB1H102KT-AS	1	1	C165	CU3503	Chip C.	GRM36CK020C50PT	1	1
C101	CU3535	Chip C.	GRM36B102K50PT	1	1	C166	CU3535	Chip C.	GRM36B102K50PT	1	1
C102	CU3506	Chip C.	GRM36CH050C50PT	1	1	C167	CU3535	Chip C.	GRM36B102K50PT	1	1
C103	CU4019	Chip C.	GRM42-6CH470J500PT	1	1	C168	CU3535	Chip C.	GRM36B102K50PT	1	1
C104	CS0220	Chip Tantalum	TMCMA1C225MTR	1	1	C169	CU3547	Chip C.	GRM36B103K16PT	1	1
C105	CU3512	Chip C.	GRM36CH120J50PT	1	1	C170	CU3513	Chip C.	GRM36CH150J50PT	1	1
C106	CU4008	Chip C.	GRM42-6CH070D500PT	1	1	C171	CU3547	Chip C.	GRM36B103K16PT	1	1
C107	CU3551	Chip C.	GRM36B223K16PT	1	1	C173	CU3515	Chip C.	GRM36CH220J50PT	1	1
C108	CU3035	Chip C.	C1608JB1H102KT-AS	1	1	C174	CU3511	Chip C.	GRM36CH100D50PT	1	1
C109	CU3535	Chip C.	GRM36B102K50PT	1	1	C175	CU3511	Chip C.	GRM36CH100D50PT	1	1
C110	CU3547	Chip C.	GRM36B103K16PT	1	1	C176	CS0237	Chip Tantalum	TMCMA1A475MTR	1	1
C111	CU0002	Chip C.	C2012CH1H010CT-A	1	1	C177	CU3503	Chip C.	GRM36CK020C50PT	1	1
C112	CU4006	Chip C.	GRM42-6CH050C500PT	1	1	C178	CU3515	Chip C.	GRM36CH220J50PT	1	1
C113	CU3502	Chip C.	GRM36CK010C50PT	1	1	C179	CU3503	Chip C.	GRM36CJ020C50PT	1	1
C114	CS0063	Chip Tantalum	TMCSA1V104MTR	1	1	C180	CU3502	Chip C.	GRM36CK010C50PT	1	1
C115	CU3004	Chip C.	C1608CH1H030CT-AS	1	0	C181	CU3502	Chip C.	GRM36CK010C50PT	1	1
C115	CU3005	Chip C.	C1608CH1H040CT-AS	0	1	C182	CU3512	Chip C.	GRM36CH120J50PT	1	1
C116	CU4010	Chip C.	GRM42-6CH090D500PT	1	1	C183	CU3535	Chip C.	GRM36B102K50PT	1	1
C117	CU4007	Chip C.	GRM42-6CH060D500PT	1	1	C184	CU3529	Chip C.	GRM36B331K50PT	1	1
C118	CU3547	Chip C.	GRM36B103K16PT	1	1	C185	CU3527	Chip C.	GRM36CH221J25PT	1	1
C119	CE0420	Electrolytic C.	16MV22SZ	1	1	C186	CU3111	Chip C.	C1608JB1C104KT-N	1	1
C120	CU3535	Chip C.	GRM36B102K50PT	1	1	C187	CU3535	Chip C.	GRM36B102K50PT	1	1
C121	CU3535	Chip C.	GRM36B102K50PT	1	1	C188	CU3513	Chip C.	GRM36CH150J50PT	1	1
C122	CU3535	Chip C.	GRM36B102K50PT	1	1	C189	CU3516	Chip C.	GRM36CH270J50PT	1	1
C123	CU3035	Chip C.	C1608JB1H102KT-AS	1	1	C190	CU3523	Chip C.	GRM36CH101J50PT	1	1
C124	CU4006	Chip C.	GRM42-6CH050C500PT	1	1	C191	CU3504	Chip C.	GRM36CJ030C50PT	1	1
C125	CU4001	Chip C.	GRM42-6CK010C500PT	1	1	C192	CU3535	Chip C.	GRM36B102K50PT	1	1
C126	CU4007	Chip C.	GRM42-6CH060D500PT	1	1	C193	CU3513	Chip C.	GRM36CH150J50PT	1	1
C127	CU4005	Chip C.	GRM42-6CH040C500PT	1	1	C194	CU3511	Chip C.	GRM36CH100D50PT	1	1
C128	CU3511	Chip C.	GRM36CH100D50PT	1	1	C195	CU3511	Chip C.	GRM36CH100D50PT	1	1
C129	CU3001	Chip C.	C1608CH1H0R5CT-AS	1	1	C196	CS0049	Chip Tantalum	TMCSA1C105MTR	1	1
C130	CU3001	Chip C.	C1608CH1H0R5CT-AS	1	1	C197	CS0063	Chip Tantalum	TMCSA1V104MTR	1	1
C131	CU4019	Chip C.	GRM42-6CH470J500PT	'1	1	C198	CU3535	Chip C.	GRM36B102K50PT	1	
C132	CU3535	Chip C.	GRM36B102K50PT	1	1	C199	CU3515	Chip C.	GRM36CH220J50PT	1	1
C133	CU3035	Chip C.	C1608JB1H102KT-AS	'1	1	C200	CU3517	Chip C.	GRM36CH330J50PT	1	1
C134	CU3035	Chip C.	C1608JB1H102KT-AS	'1	1	C201	CU3519	Chip C.	GRM36CH470J50PT	1	1
C135	CS0063	Chip Tantalum	TMCSA1V104MTR	'1	1	C202	CU3507	Chip C.	GRM36CH060D50PT	1	1
C136	CU3531	Chip C.	GRM36B471K50PT		1	C202	CU3547	Chip C.	GRM36B103K16PT	1	1
C130	CU3535	Chip C.	GRM36B102K50PT	'	1	C205	CU3517	Chip C.	GRM36CH330J50PT	1	
C137	CU3533	Chip C.	GRM36CH101J50PT		1	C203	CU3547	Chip C.	GRM36B103K16PT	1	1
C139	CU3035	Chip C.	C1608JB1H102KT-AS		1	C200	CU3535	Chip C.	GRM36B102K50PT	1	
C141	CU3035	Chip C.	C1608JB1H102KT-AS		1	C207	CU3111	Chip C.	C1608JB1C104KT-N		
C141	CU3035 CU3523	Chip C.	GRM36CH101J50PT	1 1	1	C208	CU3111	Chip C.	C1608JB1C104KT-N	1	
							CU3111	1			
C143	CU3035	Chip C.	C1608JB1H102KT-AS	1 1	1	C210 C211	CU3111	Chip C.	C1608JB1C104KT-N	1	1
C144	CU3035	Chip C.	C1608JB1H102KT-AS	1	1			Chip C.	GRM36B103K16PT	1	
C145	CU3535	Chip C.	GRM36B102K50PT		1	C213	CU3535	Chip C.	GRM36B102K50PT	1	1
C146	CU3535	Chip C.	GRM36B102K50PT	1	1	C214	CU3535	Chip C.	GRM36B102K50PT	1	1
C147	CU3523	Chip C.	GRM36CH101J50PT	1	1	C215	CU3535	Chip C.	GRM36B102K50PT	1	1
C148	CU3547	Chip C.	GRM36B103K16PT	1	1	C216	CU3517	Chip C.	GRM36CH330J50PT	1	1
C149	CU3535	Chip C.	GRM36B102K50PT	1	1	C218	CU3517	Chip C.	GRM36CH330J50PT	1	1
C150	CU3111	Chip C.	C1608JB1C104KT-N	1	1	C219	CU3517	Chip C.	GRM36CH330J50PT	1	1

Common	Ref. No.	Parts No.	Description	Parts Name	(T)	ty (E)		Ref. No.	Parts No.	Description	Parts Name	(T)	Qty (E)
2222 0.13556 0.1119		CU3535	Chin C	CDM36B102K50DT	_				CU3511	Chin C	GPM36CH100D50DT	_	_
Color					1								
C222 C.15551 Chip C					1								
C224					1								Ι'
Carbo Carbon Ca					1					'			
C226 C23515 C16 C					1								'
Cargon C					1 '								
2226					1								'
Color					1								
Carlo Carl			· ·		1 '								
Call					1								1 .
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C279 CU3535 Chip C. GRM36B102K50PT 1 1 C350 CU3535 Chip C. GRM36B102K50PT 1 1 C280 CU3547 Chip C. GRM36B103K16PT 1 1 C353 CU3504 Chip C. GRM36CJ030C50PT 1 1 1 C281 CU3514 Chip C. GRM36CH180J50PT 1 1 C354 CU3547 Chip C. GRM36B103K16PT 1 <			· ·		1								1
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C281 CU3514 Chip C. GRM36CH180J50PT 1 1 C354 CU3547 Chip C. GRM36B103K16PT 1 1 1 C282 CU3518 Chip C. GRM36CH390J50PT 1 1 1 C355 CU3535 Chip C. GRM36B102K50PT 1 1 1 C283 CU3524 Chip C. GRM36B103K16PT 1 1 1 C356 CU3547 Chip C. GRM36B103K16PT 1 1 1 C284 CU3504 Chip C. GRM36B103K16PT 1 1 1 C357 CU3547 Chip C. GRM36B103K16PT 1 1 1 C284 CU3504 Chip C. GRM36B103K16PT 1 1 1 C357 CU3547 Chip C. GRM36B103K16PT 1 1 1					1								1
C282 CU3518 Chip C. GRM36CH390J50PT 1 1 1 C355 CU3535 Chip C. GRM36B102K50PT 1 1 1 C283 CU3524 Chip C. GRM36CH121J50PT 1 1 1 C356 CU3547 Chip C. GRM36B103K16PT 1 1 1 C284 CU3504 Chip C. GRM36B103K16PT 1 <td></td> <td></td> <td>· ·</td> <td></td> <td>1</td> <td></td> <td> </td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td>			· ·		1								1
C283 CU3524 Chip C. GRM36CH121J50PT 1 1 1 C356 CU3547 Chip C. GRM36B103K16PT 1 1 1 C357 CU3547 Chip C. GRM36B103K16PT 1 1 1					1								'
C284 CU3504 Chip C. GRM36CJ030C50PT 1 1 1 C357 CU3547 Chip C. GRM36B103K16PT 1 1					1					1			'
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AZUKI DAGKUM DAGUA, DAGUA, DAGUBUKEL LILI ■ ■CYD UJIYIYI UJUUL UJEDUSDE UZKODE (1780-1178-1178-1178-1178-1178-1	C285	CU3524	Chip C.	GRM36CH121J50PT		1		C358	CU3535	Chip C.	GRM36B102K50PT	1	

Ref. No.	Parts No.	Description	Parts Name	(T)	ty (E)		Ref. No.	Parts No.	Description	Parts Name	(T)	ty (E)
C359	CU3522	Chip C.	GRM36CH820J50PT	1	1		C427	CU3535	Chip C.	GRM36B102K50PT	1	1
C360	CU3551	Chip C.	GRM36B223K16PT	1	1		C428	CU3512	Chip C.	GRM36CH120J50PT	1	1
C361	CU3527	Chip C.	GRM36CH221J25PT	1	1		C429	CU3502	Chip C.	GRM36CK010C50PT	1	1
C362	CS0424	Chip Tantalum	TMCMA1C106MTR	1	1		C430	CU3535	Chip C.	GRM36B102K50PT	1	1
C363	CU3535	Chip C.	GRM36B102K50PT	1	1		C431	CS0237	Chip Tantalum	TMCMA1A475MTR	1	1
C364	CS0237	Chip Tantalum	TMCMA1A475MTR	1	1		C432	CU3535	Chip C.	GRM36B102K50PT	1	1
C365	CS0424	Chip Tantalum	TMCMA1C106MTR	1	1		C434	CU3503	Chip C.	GRM36CK020C50PT	1	1
C366	CU3535	Chip C.	GRM36B102K50PT	1	1		C435	CS0237	Chip Tantalum	TMCMA1A475MTR	1	1
C367	CU3511	Chip C.	GRM36CH100D50PT	1	1		C436	CS0424	Chip Tantalum	TMCMA1C106MTR	1	1
C368	CU3111	Chip C.	C1608JB1C104KT-N	1	1		C437	CS0237	Chip Tantalum	TMCMA1A475MTR	1	1
C369	CU3111	Chip C.	C1608JB1C104KT-N	1	1		C438	CU3505	Chip C.	GRM36CH040C50PT	1	1
C370	CU3535	Chip C.	GRM36B102K50PT	1	1		C439	CS0424	Chip Tantalum	TMCMA1C106MTR	1	1
C371	CU3543	Chip C.	GRM36B472K25PT	1	1		C440	CU0108	Chip C.	LMK212BJ105KG	1	1
C372	CU3527	Chip C.	GRM36CH221J25PT	1	1		C441	CU3535	Chip C.	GRM36B102K50PT	1	1
C373	CU3111	Chip C.	C1608JB1C104KT-N	1	1		C442	CE0364	Electrolytic C.	16MV 47SWB+TS	1	1
C374	CU3111	Chip C.	C1608JB1C104KT-N	1	1		C443	CU3551	Chip C.	GRM36B223K16PT	1	1
C375	CU3547	Chip C.	GRM36B103K16PT	1	1		C444	CU3551	Chip C.	GRM36B223K16PT	1	1
C376	CU3535	Chip C.	GRM36B102K50PT	1	1		C445	CE0342	Electrolytic C.	16MV 470HC+TS	1	1
C377	CU3547	Chip C.	GRM36B103K16PT	1	1		C446	CU0108	Chip C.	LMK212BJ105KG	1	1
C378	CU3101	Chip C.	C1608JB1C473KT-NS	1	1		C447	CU3535	Chip C.	GRM36B102K50PT	1	1
C379	CU3111	Chip C.	C1608JB1C104KT-N	1	1		C448	CU0108	Chip C.	LMK212BJ105KG	1	1
C380	CU3511	Chip C.	GRM36CH100D50PT	1	1		C449	CU3535	Chip C.	GRM36B102K50PT	1	1
C381	CU3509	Chip C.	GRM36CH080D50PT	1	1		C450	CU3547	Chip C.	GRM36B103K16PT	1	1
C382	CU3505	Chip C.	GRM36CH040C50PT	1	1		C451	CU3551	Chip C.	GRM36B223K16PT	1	1
C383	CU3523	Chip C.	GRM36CH101J50PT	1	1		C453	CS0424	Chip Tantalum	TMCMA1C106MTR	1	1
C384	CU3520	Chip C.	GRM36CH560J50PT	1	1		C454	CS0424	Chip Tantalum	TMCMA1C106MTR	1	1
C386	CU3526	Chip C.	GRM36CH181J25PT	1	1		C455	CU3547	Chip C.	GRM36B103K16PT	1	1
C387	CU3047	Chip C.	C1608JB1H103KT-N	1	1		C456	CU3535	Chip C.	GRM36B102K50PT	1	1
C389	CU3538	Chip C.	GRM36B182K50PT	1	1		C457	CU3535	Chip C.	GRM36B102K50PT	1	1
C390	CU3523	Chip C.	GRM36CH101J50PT	1	1		C458	CE0339	Electrolytic C.	16MV 10SWB+TS	1	1
C391	CU3503	Chip C.	GRM36CK020C50PT	1	1		C459	CS0423	Chip Tantalum	TMCMB1C226MTR	1	1
C392	CU3512	Chip C.	GRM36CH120J50PT	1	1		C460	CE0100	Electrolytic C.	16MV 22UW	1	1
C393	CU3506	Chip C.	GRM36CH050C50PT	1	1		C461	CU3551	Chip C.	GRM36B223K16PT	1	1
C394	CU3507	Chip C.	GRM36CH060D50PT	1	1		C462	CU3551	Chip C.	GRM36B223K16PT	1	1
C395	CU3535	Chip C.	GRM36B102K50PT	1	1		C463	CU3111	Chip C.	C1608JB1C104KT-N	1	1
C396	CU3547	Chip C.	GRM36B103K16PT	1	1		C464	CU3547	Chip C.	GRM36B103K16PT	1	1
C397	CU3535	Chip C.	GRM36B102K50PT	1	1		C465	CU3111	Chip C.	C1608JB1C104KT-N	1	1
C398	CU3504	Chip C.	GRM36CJ030C50PT	1	1		C466	CU3102	Chip C.	C1608JB1C333KT-NS	1	1
C399	CU3535	Chip C.	GRM36B102K50PT	1 .	1		C467	CU3535	Chip C.	GRM36B102K50PT	1	1
C401	CU3505	Chip C.	GRM36CH040C50PT	1	1		C468	CU3035	Chip C.	C1608JB1H102KT-AS	1	1
C402	CU3511	Chip C.	GRM36CH100D50PT	1	1		C469	CU3027	Chip C.	C1608CH1H221JT-AS	1	1
C403	CU3111	Chip C.	C1608JB1C104KT-N	1 .	1		C470	CE0418	Electrolytic C.	16MV2200CA	1	1
C404	CU3547	Chip C.	GRM36B103K16PT	1	1		C471	CU3535	Chip C.	GRM36B102K50PT	1	1
	CU3505	Chip C.	GRM36CH040C50PT	1	1		C472	CE0339	Electrolytic C.	16MV 10SWB+TS	1	1
C406	CU3511	Chip C.	GRM36CH100D50PT	1 1	1		C473	CE0364	Electrolytic C.	16MV 47SWB+TS	1	1
C407	CS0424	Chip Tantalum	TMCMA1C106MTR	1 1	1		C474	CU3535	Chip C.	GRM36B102K50PT	1	
C408	CU3102	Chip C.	C1608JB1C333KT-NS	1 1	1		C475	CU3551	Chip C.	GRM36B223K16PT	1	1 1
C409	CU3549	Chip C.	GRM36B153K16PT	1 1	1		C476	CU3549 CS0424	Chip C.	GRM36B153K16PT	1	1
	CU3111 CU3535	Chip C.	C1608JB1C104KT-N GRM36B102K50PT	1 1	1		C477 C478	CS0424 CU3547	Chip Tantalum Chip C.	TMCMA1C106MTR GRM36B103K16PT	1	1
	CU3535	Chip C. Chip C.		1 1	1		C478	CU3547			1	1
	CU3111	Chip C.	C1608JB1C104KT-N GRM36B153K16PT	1 1	1		C479	CE0364	Chip C. Electrolytic C.	GRM36B102K50PT 16MV 47SWB+TS	1	
C413	CU3535	Chip C.	GRM36B102K50PT		1		C481	CS0049	Chip Tantalum	TMCSA1C105MTR	1	
	CU3533	Chip C.	GRM36CH101J50PT		1		C482	CU3049	Chip Cantalum Chip C.	C1608JB1H103KT-N	1	1
	CU3523	Chip C.	GRM36CH101J50PT		1		C483	CU3541	Chip C.	GRM36B332K50PT	1	
C417	CU0002	Chip C.	C2012CH1H010CT-A	1	1		C484	CU3538	Chip C.	GRM36B182K50PT	1	
	CU3503	Chip C.	GRM36CK020C50PT		1		C485	CU3544	Chip C.	GRM36B562K25PT	1	1
	CU3504	Chip C.	GRM36CJ030C50PT		1		C486	CU3540	Chip C.	GRM36B272K50PT	1	1
C420	CU3504	Chip C.	GRM36CH050C50PT	1	1		C487	CU3535	Chip C.	GRM36B102K50PT	1	1
	CU3506	Chip C.	GRM36CH050C50PT		1		C488	CS0049	Chip C. Chip Tantalum	TMCSA1C105MTR	1	1
C421	CU3506	Chip C.	GRM36CH050C50PT		1		C489	CU3551	Chip C.	GRM36B223K16PT	1	1
C423	CU3503	Chip C.	GRM36CK020C50PT		1		C469 C490	CU3544	Chip C.	GRM36B562K25PT		
C425	CU3506	Chip C.	GRM36CH050C50PT		1		C490 C491	CU3544 CU3542	Chip C.	GRM36B392K50PT	1	1
C425	CU3503	Chip C.	GRM36CK020C50PT		1		C491 C492	CU03542 CU0108	Chip C.	LMK212BJ105KG	1	1
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Ref.	Parts No.	Description	Parts Name	C	ty	Ref.	Parts No.	Description	Parts Name	G	ty
No.		·		(T)	(E)	No.				(T)	(E)
C493	CU3551	Chip C.	GRM36B223K16PT	1	1	C563	CU3547	Chip C.	GRM36B103K16PT	1	1
C494	CU3549 CS0049	Chip C.	GRM36B153K16PT TMCSA1C105MTR	1	1	C567	CU3035	Chip C.	C1608JB1H102KT-AS	1	1
C495 C496	CS0049 CU3547	Chip Tantalum Chip C.	GRM36B103K16PT	1 1	1	C568 C569	CU3011	Chip C. Chip C.	C1608CH1H100DT-AS C1608JB1C104KT-N	1 1	1 1
C497	CU3047	Chip C.	C1608JB1H103KT-N		1	CN1	RD0108	Jumper	J1/6Z	1	
C498	CU3047	Chip C.	C1608JB1H103KT-N		1	CN2	UJ0051	Jack	HJC0212-01-022	1	
C499	CU3531	Chip C.	GRM36B471K50PT	1	1	CN3	UE0214	Connector	AXN420C530P	1	1 1
C500	CS0424	Chip Tantalum	TMCMA1C106MTR	1	1	CN4	UE0393	Connector	PI28A11M	1	1
C501	CU3551	Chip C.	GRM36B223K16PT	1	1	CN5	UE0043	Connector	PI22A02M	1	1
C502	CU3111	Chip C.	C1608JB1C104KT-N	1	1	CN6	UE0043	Connector	PI22A02M	1	1
C503	CU3535	Chip C.	GRM36B102K50PT	1	1	CN7	UA0037Y		DC CABLE UA0037	1	1
C504	CE0364	Electrolytic C.	16MV 47SWB+TS	1	1	CN8	UE0455	Connector	PI28A10M	1	1
C505	CU3111	Chip C.	C1608JB1C104KT-N	1	1	CN9	UE0226	Connector	B2B-PH-K-S	1	1
C506	CU3538	Chip C.	GRM36B182K50PT	1	1	CN10	UE0043	Connector	PI22A02M	1	1
C507	CU3544	Chip C.	GRM36B562K25PT	1	1	CN11	UE0043	Connector	PI22A02M	1	1
C508	CU3540	Chip C.	GRM36B272K50PT	1	1	D1	XD0013	Diode	XB15A407AGB	1	1
C509	CU3535	Chip C.	GRM36B102K50PT	1	1	D2	XD0320	Chip Diode	DAN235E-TL	1	1
C510	CU3541	Chip C.	GRM36B332K50PT	1	1	D3	XD0320	Chip Diode	DAN235E-TL	1	1
C511	CU3551	Chip C.	GRM36B223K16PT	1	1	D5	XD0320	Chip Diode	DAN235E-TL	1	1
C512 C513	CU3551 CU3542	Chip C. Chip C.	GRM36B223K16PT GRM36B392K50PT	1 1	1	D6 D7	XD0374 XD0342	Chip Diode Chip Diode	1SV278 TPH2 1SS390 TE61	1	1
C513	CU3542 CU3544	Chip C.	GRM36B562K25PT	1	1	D8	XD0342 XD0375	Chip Diode	MA4S713-TX	1	1 1
C515	CU3523	Chip C.	GRM36CH101J50PT	1	1	D9	XD0375	Chip Diode	MA4S713-TX	1	
C516	CU3111	Chip C.	C1608JB1C104KT-N		1	D10	XD0376	Chip Diode	1SV282 TPH2	1	
C517	CS0424	Chip Tantalum	TMCMA1C106MTR	1	1	D11	XD0376	Chip Diode	1SV282 TPH2	1	1 1
C518	CU3111	Chip C.	C1608JB1C104KT-N	1	1	D12	XD0373	Chip Diode	UM9401F	1	1
C519	CU0108	Chip C.	LMK212BJ105KG	1	1	D13	XD0373	Chip Diode	UM9401F	1	1
C520	CU3506	Chip C.	GRM36CH050C50PT	1	1	D14	XD0331	Chip Diode	HSU277TRF	1	1
C521	CU3535	Chip C.	GRM36B102K50PT	1	1	D15	XD0331	Chip Diode	HSU277TRF	1	1
C522	CE0339	Electrolytic C.	16MV 10SWB+TS	1	1	D16	XD0331	Chip Diode	HSU277TRF	1	1
C523	CU3511	Chip C.	GRM36CH100D50PT	1	1	D17	XD0320	Chip Diode	DAN235E-TL	1	1
C524	CU3509	Chip C.	GRM36CH080D50PT	1	1	D18	XD0254	Chip Diode	1SS355 TE17	1	1
C525	CU3527	Chip C.	GRM36CH221J25PT	1	1	D19	XD0331	Chip Diode	HSU277TRF	1	1
C527	CU3547	Chip C.	GRM36B103K16PT	1	1	D20	XD0254	Chip Diode	1SS355 TE17	1	1
C530	CU3515	Chip C.	GRM36CH220J50PT	1	1	D21	XD0374	Chip Diode	1SV278 TPH2	1	1
C531	CU3535	Chip C.	GRM36B102K50PT	1	1	D22	XD0375	Chip Diode	MA4S713-TX	1	1
C532	CU3535	Chip C.	GRM36B102K50PT	1 .	1	D23	XD0376	Chip Diode	1SV282 TPH2	1	1
C533	CS0424	Chip Tantalum	TMCMA1C106MTR	1	1	D24	XD0374	Chip Diode	1SV278 TPH2	1	1
C534	CS0424	Chip Tantalum	TMCMA1C106MTR	1	1	D25	XD0376	Chip Diode	1SV282 TPH2	1	1
C536 C537	CU3502 CU3515	Chip C.	GRM36CK010C50PT GRM36CH220J50PT	1 1	1	D26 D27	XD0320 XD0320	Chip Diode	DAN235E-TL DAN235E-TL	1	1 1
	CU3535	Chip C. Chip C.	GRM36B102K50PT		1	D27	XD0320	Chip Diode Chip Diode	HVU359TRF	1	
	CU3506	Chip C.	GRM36CH050C50PT		1	D29	XD0314 XD0314	Chip Diode	HVU359TRF	1	
	CS0220	Chip Tantalum	TMCMA1C225MTR	1	1	D30	XD0314	Chip Diode	HVU359TRF	1	1
C541	CS0230	Chip Tantalum	TMCMA1E105MTR	1	1	D31	XD0377	Chip Diode	MAZS0270HL	1	1
C542	CS0049	Chip Tantalum	TMCSA1C105MTR	1	1	D32	XD0338	Chip Diode	1SS362(TE85L)	1	1
	CU3535	Chip C.	GRM36B102K50PT	1	1	D33	XD0320	Chip Diode	DAN235E-TL	1	1
C545	CS0423	Chip Tantalum	TMCMB1C226MTR	1	1	D34	XD0342	Chip Diode	1SS390 TE61	1	1
C546	CS0423	Chip Tantalum	TMCMB1C226MTR	1	1	D35	XD0374	Chip Diode	1SV278 TPH2	1	1
C547	CU3535	Chip C.	GRM36B102K50PT	1	1	D37	XD0320	Chip Diode	DAN235E-TL	1	1
C548	CU3506	Chip C.	GRM36CH050C50PT	1	1	D38	XD0374	Chip Diode	1SV278 TPH2	1	1
C549	CU0108	Chip C.	LMK212BJ105KG	1	1	D39	XD0165	Chip Diode	UDZSTE-17 5.1B	1	1
	CU0108	Chip C.	LMK212BJ105KG	1	1	D40	XD0374	Chip Diode	1SV278 TPH2	1	1
C551	CU3535	Chip C.	GRM36B102K50PT	1	1	D41	XD0342	Chip Diode	1SS390 TE61	1	1
C552	CU3551	Chip C.	GRM36B223K16PT	1	1	D42	XD0250	Chip Diode	MA742 TX	1	1
C553	CU0108	Chip C.	LMK212BJ105KG	1	1	D43	XD0319	Chip Diode	MA2S077-TX	1	1
C555	CU3017	Chip C.	C1608CH1H330JT-AS	1	1	D45	XD0323	Chip Diode	MA2S111-TX	1	1
C556	CU3035	Chip C.	C1608JB1H102KT-AS	1	1	D46	XD0374	Chip Diode	1SV278 TPH2	1	1
C558	CU7047	Chip C.	UC232H0330F-T	1	1	D47	XD0374	Chip Diode	1SV278 TPH2	1	1
C559	CU4004	Chip C.	GRM42-6CH050C300PT	1	0	D48	XD0320	Chip Diode	DAN235E-TL	1	1 1
C559	CU4006	Chip C.	GRM42-6CH050C500PT	0	1	D49	XD0314	Chip Diode	HVU359TRF	1	
C560	CU4004	Chip C.	GRM42-6CJ030C500PT	1	1	D50	XD0314 XD0314	Chip Diode	HVU359TRF	1	
C561 C562	CU3031 CE0341	Chip C.	C1608JB1H471KT-AS	1 1	1	D51 D52	XD0314 XD0314	Chip Diode	HVU359TRF	1 1	1 1
UUU2	UE0341	Electrolytic C.	16MV 100HC+TS		- 1	D52	JVD0214	Chip Diode	HVU359TRF	1 1	

Ref. No.	Parts No.	Description	Parts Name	(T)	ty (E)		Ref. No.	Parts No.	Description	Parts Name	(T)	ty (E)
D53	XD0338	Chip Diode	1SS362(TE85L)	1	1		L21	QC0573	Chip Inductor	LL1608-FHR10J	1	1
D54	XD0342	Chip Diode	1SS390 TE61	1	1		L22	QKA75A	Coil	QKA75A	1	1
D57	XD0165	Chip Diode	UDZSTE-17 5.1B	1	1		L23	QC0614	Chip Inductor	LL1608-FS8N2J	1	1
D58	XD0165	Chip Diode	UDZSTE-17 5.1B	1	1		L24	QKA45E	Coil	MR3.0 4.5T 0.8	1	1
D59	XD0165	Chip Diode	UDZSTE-17 5.1B	1	1		L25	QA0162	Chip Inductor	VCO QA0162 5CBM	1	1
D60	XD0323	Chip Diode	MA2S111-TX	1	1		L26	QC0530	Chip Inductor	LQN21A22NJ04	1	1 1
D61	XD0323	Chip Diode	MA2S111-TX	1	1		L27	QC0442	Chip Inductor	MLF1608A1R0K-T	1	1
D62	XD0323	Chip Diode	MA2S111-TX	1	1		L28	QC0442	Chip Inductor	MLF1608A1R0K-T	1	1
D63 D64	XD0274 XD0315	Diode Chip Diode	DSA3A1 MA2S728-TX		1		L29 L30	QKA15E QKA35E	Coil	MR3.0 1.5T 0.8 MR3.0 3.5T 0.8	1	1
D65	XD0315 XD0165	Chip Diode Chip Diode	UDZSTE-17 5.1B		1		L30 L31	QKA35E	Coil	MR3.0 2.5T 0.8	1	
D65	XD0165 XD0315	Chip Diode	MA2S728-TX		1		L32	QKA25E QKA15E	Coil	MR3.0 1.5T 0.8		
D67	XD0313	Chip Diode	MA2S111-TX		1		L33	QKA85C	Coil	QKA85C	1	
D68	XD0325	Chip Diode	UDZSTE-17 5.1B	1	1		L34	QKA25E	Coil	MR3.0 2.5T 0.8		
D69	XD0315	Chip Diode	MA2S728-TX	1	1		L35	QKA25E	Coil	MR3.0 2.5T 0.8	1	1
FL1	XC0070	Ceramic Filter	ALFYM450E=K	1	1		L36	QC0621	Chip Inductor	LL1608-FS33NJ	1	
FL3	XC0078	Ceramic Filter	SFT10.7MA5-Z	1	1		L37	QC0442	Chip Inductor	MLF1608A1R0K-T	1	
FL4	XC0047	Ceramic Filter	ALFYM455E=K	1	1		L38	QC0573	Chip Inductor	LL1608-FHR10J	1	1
IC1	XA0596	lic	NJM2902V-TE1	1	1		L39	QC0527	Chip Inductor	LQN21A12NJ04	1	1
IC2	XA0915	liC	M64076AGP	1	1		L40	QC0540	Chip Inductor	LQN21AR15J04	1	1
IC3	XA0666	IC	TK10931VTL	1	1		L41	QC0572	Chip Inductor	LL1608-FH82NJ	1	1
IC4	XA0573	IC	NJM2904V-TE1	1	1		L42	QC0535	Chip Inductor	LQN21A56NJ04	1	1
IC5	XA0404	IC	TA31136FN(EL)	1	1		L43	QC0542	Chip Inductor	LQN21AR22J04	1	1
IC6	XA0348	IC	TC4W53FU(TE12)	1	1		L44	QC0542	Chip Inductor	LQN21AR22J04	1	1
IC7	XA0115	IC	TC4S66F TE85R	1	1		L45	QC0518	Chip Inductor	LK16081R5K-T	1	1
IC8	XA0410	IC	LA4425A	1	1		L46	QC0539	Chip Inductor	LQN21AR12J04	1	1
IC9	XA0596	IC	NJM2902V-TE1	1	1		L47	QC0540	Chip Inductor	LQN21AR15J04	1	1
IC10	XA0348	IC	TC4W53FU(TE12)	1	1		L48	QC0537	Chip Inductor	LQN21A82NJ04	1	1
IC12	XA0236	IC	BU4052BCF-E2	1	1		L49	QC0539	Chip Inductor	LQN21AR12J04	1	1
IC13	XA0900	IC	M51132FP	1	1		L50	QC0538	Chip Inductor	LQN21AR10J04	1	1
IC14	XA0119	IC	AN8010M E1	1	1		L51	QC0539	Chip Inductor	LQN21AR12J04	1	1
IC15	XA0348	IC	TC4W53FU(TE12)	1	1		L52	QC0442	Chip Inductor	MLF1608A1R0K-T	1	1
IC16	XA0102	IC	NJM7808FA	1	1		L53	QA0160	Chip Inductor	K5-S2/33331 PKI-0042	1	1
IC18	XA0596	IC	NJM2902V-TE1	1	1		L54	QC0677	Chip Inductor	LER012TR82M	1	1
IC19	XA0913	IC	M30620FCAGP	0	1		L55	QC0527	Chip Inductor	LQN21A12NJ04	1	1
IC19	XA0949	IC IC	M30620FCAGP(T)	1	0		L56	QC0621	Chip Inductor	LL1608-FS33NJ	1	
IC20	XA0620	IC	S-80845ALMP-EA9-T2	1	1		L57	QA0093 QC0285	Chip Inductor	QA0093	1	1 1
IC21	XA0669	IC IC	BR24C64F-E2 NJM78L05UA TE1	1 1	1		L58 L59	1	Chip Inductor	NL252018T-R56JA LER012TR82M	1	1
IC22 IC23	XA0098 XA0348	IC IC	TC4W53FU(TE12)		1		L60	QC0677 QC0518	Chip Inductor Chip Inductor	LK16081R5K-T		
IC23	XA0925	IC	S-816A50AMC-BAZ-T2		1		L62	QC0535	Chip Inductor	LQN21A56NJ04		
IC25	XA0323	IC	TA75S01F(TE85L)		1		L63	QC0442	Chip Inductor	MLF1608A1R0K-T	1	
	UJ0053	Jack	HSJ1332-01-020		1		L64	QC0531	Chip Inductor	LQN21A27NJ04	1	1
JP3		Wire	#30AH1-040-H1	1	1		L65	QC0573	Chip Inductor	LL1608-FHR10J	1	
L1	QB0038	Inductor	EXCELSA39	1	1		L66	QC0672	Chip Inductor	LER012TR33M	1	1
L2	QKA15A	Coil	MR1.5 1.5T 0.4	1	1		L67	QC0542	Chip Inductor	LQN21AR22J04	1	1
L3	QKA95D	Coil	MR3.0 9.5T 0.6	1	1		L68	QC0542	Chip Inductor	LQN21AR22J04	1	1
L4	QKA55E	Coil	MR3.0 5.5T 0.8	1	1		L69	QC0518	Chip Inductor	LK16081R5K-T	1	1
L5	QKA55E	Coil	MR3.0 5.5T 0.8	1	1		L70	QC0536	Chip Inductor	LQN21A68NJ04	1	1
L6	QKA55E	Coil	MR3.0 5.5T 0.8	1	1		L71	QC0534	Chip Inductor	LQN21A47NJ04	1	1
L7	QKA45E	Coil	MR3.0 4.5T 0.8	1	1		L72	QC0536	Chip Inductor	LQN21A68NJ04	1	1
L8	QKA65A	Coil	MR1.5 3.5T 0.4	1	1		L73	QC0573	Chip Inductor	LL1608-FHR10J	1	1
L9	QC0621	Chip Inductor	LL1608-FS33NJ	1	1		L74	QC0535	Chip Inductor	LQN21A56NJ04	1	1
L10	QKA15E	Coil	MR3.0 1.5T 0.8	1	1		L75	QC0535	Chip Inductor	LQN21A56NJ04	1	1
L11	QK0115	Coil	AS120252-9R3N	1	1		L76	QC0442	Chip Inductor	MLF1608A1R0K-T	1	1
L12	QC0442	Chip Inductor	MLF1608A1R0K-T	1	1		L77	QC0534	Chip Inductor	LQN21A47NJ04	1	1
L13	QC0534	Chip Inductor	LQN21A47NJ04	1	1		L78	QC0530	Chip Inductor	LQN21A22NJ04	1	1
L14	QKA65A	Coil	MR1.5 3.5T 0.4	1	1		L79	QKA45A	Coil	MR1.5 4.5T 0.4	1	1
L15	QC0534	Chip Inductor	LQN21A47NJ04	1	1		L80	QKA45A	Coil	MR1.5 4.5T 0.4	1	1
L16	QC0620	Chip Inductor	LL1608-FS27NJ	1	1		L81	QKA45A	Coil	MR1.5 4.5T 0.4	1	1
L17	QC0570	Chip Inductor	LL1608-FH56NJ	1	1		L82	QKA45A	Coil	MR1.5 4.5T 0.4	1	1
L18	QKA75A	Coil	QKA75A	1	1		L83	QC0288	Chip Inductor	NL252018T-1R0JA	1	1
L19	QKA15A	Coil	MR1.5 1.5T 0.4	1	1		L84	QC0526	Chip Inductor	LQN21A10NJ04	1	1 1
L20	QC0508	Chip Inductor	LK16082R2K-T	1	1	l	L85	QC0619	Chip Inductor	LL1608-FS22NJ	1	1

Ref. No.	Parts No.	Description	Parts Name	(T)	ty (E)		Ref. No.	Parts No.	Description	Parts Name	(T)	Ωty (E)
L86	QC0526	Chip Inductor	LQN21A10NJ04	1	1	 -		XT0138	Chip Transistor	2SC5066-O(TE85L)	1	1
L87	QC0530	Chip Inductor	LQN21A22NJ04	1	1			XU0193	Chip Transistor	RN1107 TE85L	1	
L88	QC0518	Chip Inductor	LK16081R5K-T	1	1			XT0138	Chip Transistor	2SC5066-O(TE85L)	1	1
L89	QC0532	Chip Inductor	LQN21A33NJ04	1	1			XT0138	Chip Transistor	2SC5066-O(TE85L)	1	1
L90	QC0524	Chip Inductor	LQN21A6N8D04	1	1			XU0193	Chip Transistor	RN1107 TE85L	1	1
L91	QC0442	Chip Inductor	MLF1608A1R0K-T	1	1			XU0193	Chip Transistor	RN1107 TE85L	1	1
L92	QC0526	Chip Inductor	LQN21A10NJ04	1	1			XT0146	Chip Transistor	2SC5226-4-TL	1	1
L93	QKA25A	Coil	MR1.5 2.5T 0.4	1	1			XT0146	Chip Transistor	2SC5226-4-TL	1	1
L94	QC0611	Chip Inductor	LL1608-FS4N7S	1	1			XU0192	Chip Transistor	RN2107 TE85L	1	1
L95	QC0524	Chip Inductor	LQN21A6N8D04	1	1			XU0202	Chip Transistor	XP03383-TX	1	1
L96	QC0075	Chip Inductor	NL322522T-120JA	1	1			XU0193	Chip Transistor	RN1107 TE85L	1	1
L97	QC0611	Chip Inductor	LL1608-FS4N7S	1	1			XT0190	Chip Transistor	2SB1386 T100Q	1	1
L101	QA0159	Chip Inductor	K5-S2/33331 R12T521Y	1	1			XT0110	Chip Transistor	2SA1036K T146Q	1	1
L102	QA0159	Chip Inductor	K5-S2/33331 R12T521Y	1	1			XU0192	Chip Transistor	RN2107 TE85L	1	1
L103	QC0570	Chip Inductor	LL1608-FH56NJ	1	1	l c		XT0110	Chip Transistor	2SA1036K T146Q	1	1
L104	QC0621	Chip Inductor	LL1608-FS33NJ	1	1			XU0192	Chip Transistor	RN2107 TE85L	1	1
L105	QC0619	Chip Inductor	LL1608-FS22NJ	1	1			XT0061	Chip Transistor	2SB1132T 100Q	1	1
L106	QC0570	Chip Inductor	LL1608-FH56NJ	1	1	c		XU0193	Chip Transistor	RN1107 TE85L	1	1
L107	QC0621	Chip Inductor	LL1608-FS33NJ	1	1	c	270	XU0193	Chip Transistor	RN1107 TE85L	1	1
Q1	XE0038	Chip FET	2SK2975-T11-A	1	1	l c	271	XT0061	Chip Transistor	2SB1132T 100Q	1	1
Q2	XE0044	Chip FET	2SK3074 TE12L	1	1	C	272	XU0193	Chip Transistor	RN1107 TE85L	1	1
Q3	XT0146	Chip Transistor	2SC5226-4-TL	1	1	C	273	XU0193	Chip Transistor	RN1107 TE85L	1	1
Q4	XE0047	FET	MTH538A(RD70HVF1-01)	1	1	G	274	XT0095	Chip Transistor	2SC4081 T106R	1	1
Q5	XT0138	Chip Transistor	2SC5066-O(TE85L)	1	1	C	Q75	XU0192	Chip Transistor	RN2107 TE85L	1	1
Q6	XU0193	Chip Transistor	RN1107 TE85L	1	1	C	Q76	XU0192	Chip Transistor	RN2107 TE85L	1	1
Q7	XT0138	Chip Transistor	2SC5066-O(TE85L)	1	1	C	77ג	XU0193	Chip Transistor	RN1107 TE85L	1	1
Q8	XU0192	Chip Transistor	RN2107 TE85L	1	1	C	ว78	XU0193	Chip Transistor	RN1107 TE85L	1	1
Q9	XE0010	Chip FET	2SK508K52 T2B	1	1	G	279	XU0193	Chip Transistor	RN1107 TE85L	1	1
Q10	XU0193	Chip Transistor	RN1107 TE85L	1	1	G	280	XU0193	Chip Transistor	RN1107 TE85L	1	1
Q11	XU0193	Chip Transistor	RN1107 TE85L	1	1	G	281	XU0193	Chip Transistor	RN1107 TE85L	1	1
Q12	XT0095	Chip Transistor	2SC4081 T106R	1	1	C	282	XT0061	Chip Transistor	2SB1132T 100Q	1	1
Q13	XT0138	Chip Transistor	2SC5066-O(TE85L)	1	1	C	283	XU0192	Chip Transistor	RN2107 TE85L	1	1
Q14	XT0171	Chip Transistor	2SC4808-TX.AR	1	1	C	284	XU0192	Chip Transistor	RN2107 TE85L	1	1
Q15	XT0138	Chip Transistor	2SC5066-O(TE85L)	1	1	C	285	XT0095	Chip Transistor	2SC4081 T106R	1	1
Q16	XT0171	Chip Transistor	2SC4808-TX.AR	1	1	C	286	XU0193	Chip Transistor	RN1107 TE85L	1	1
Q17	XU0193	Chip Transistor	RN1107 TE85L	1	1	G	287	XU0193	Chip Transistor	RN1107 TE85L	1	1
Q18	XT0146	Chip Transistor	2SC5226-4-TL	1	1	C		XU0193	Chip Transistor	RN1107 TE85L	1	1
Q19	XE0028	Chip FET	3SK131V12-T1	1	1	C	289	XU0193	Chip Transistor	RN1107 TE85L	1	1
Q20	XT0172	Chip Transistor	2SC4618TLP	1	1	C	290	XU0193	Chip Transistor	RN1107 TE85L	1	1
Q21	XE0048	Chip FET	3SK240 TE85L	1	1			XU0193	Chip Transistor	RN1107 TE85L	1	1
Q23	XU0193	Chip Transistor	RN1107 TE85L	1	1			XT0172	Chip Transistor	2SC4618TLP	1	1
	XT0095	Chip Transistor	2SC4081 T106R	1	1			XU0193	Chip Transistor	RN1107 TE85L	1	1
		Chip Transistor	RN1107 TE85L	1	1			XU0193	Chip Transistor	RN1107 TE85L	1	1
	XU0193	Chip Transistor	RN1107 TE85L	1	1			XU0193	Chip Transistor	RN1107 TE85L	1	1
Q27	XU0193	Chip Transistor	RN1107 TE85L	1	1			XU0193	Chip Transistor	RN1107 TE85L	1	1
Q28	XT0138	Chip Transistor	2SC5066-O(TE85L)	1	1			XU0193	Chip Transistor	RN1107 TE85L	1	1
Q29	XE0010	Chip FET	2SK508K52 T2B	1	1			XT0146	Chip Transistor	2SC5226-4-TL	1	1
Q31	XT0138	Chip Transistor	2SC5066-O(TE85L)	1	1			XU0193	Chip Transistor	RN1107 TE85L	1	1 .
Q32	XT0138	Chip Transistor	2SC5066-O(TE85L)	1	1			XU0193	Chip Transistor	RN1107 TE85L	1	1
Q33	XT0138	Chip Transistor	2SC5066-O(TE85L)	1	1			XU0193	Chip Transistor	RN1107 TE85L	1	
Q34	XU0197	Chip Transistor	RN1111 (TE85L)	1	1			XU0193	Chip Transistor	RN1107 TE85L	1	1
Q35	XU0192	Chip Transistor	RN2107 TE85L	1	1			XU0193	Chip Transistor	RN1107 TE85L	1	
Q36 O37	XT0138	Chip Transistor	2SC5066-O(TE85L)	1 1	1			XU0193	Chip Transistor	RN1107 TE85L	1	
Q37	XT0172	Chip Transistor	2SC4618TLP	1	1			XU0193	Chip Transistor Chip Transistor	RN1107 TE85L	1	
Q38 Q39	XT0171 XT0138	Chip Transistor Chip Transistor	2SC4808-TX.AR 2SC5066-O(TE85L)	1 1	1			XT0138 XU0160	Chip Transistor	2SC5066-O(TE85L) DTC363EKT146	1	
Q40	XT0136 XT0171	Chip Transistor	2SC4808-TX.AR		1			XU0160	1		1	
Q40 Q41	XE0048	Chip FET	3SK240 TE85L	1	1			XU0160 XU0193	Chip Transistor Chip Transistor	DTC363EKT146 RN1107 TE85L	1	
Q41 Q42	XE0048	Chip FET	3SK240 TE85L		1			XU0193 XU0192	Chip Transistor	RN2107 TE85L	1	'
Q42 Q43	XT0146	Chip FE1	2SC5226-4-TL		1			XU0192 XU0193	Chip Transistor	RN1107 TE85L	1	
Q43 Q44	XT0146 XT0172	Chip Transistor	2SC4618TLP		1			XU0193	Chip Transistor	RN1107 TE85L	1	'
Q44 Q45	XU0172 XU0193	Chip Transistor	RN1107 TE85L		1			XT0110	Chip Transistor	2SA1036K T146Q	1	
	XU0193	Chip Transistor	RN1107 TE85L	1	1			XU0193	Chip Transistor	RN1107 TE85L	1	
JK T∪	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Chip Transistor	2SB1132T 100Q		1	R		RK3538	Chip Transision	ERJ2GEJ102X	1	L

Ref. No.	Parts No.	Description	Parts Name	(T)	ty (E)	Ref. No.	Parts No.	Description	Parts Name	(T)	ty (E)
R2	RK6024	Chip R.	ERJ1WYJ680H	1	1	R67	RK3522	Chip R.	ERJ2GEJ470X	1	1
R3	RK3546	Chip R.	ERJ2GEJ472X	1	1	R68	RK3001	Chip R.	MCR03EZHJ000	1	1
R4	RK3546	Chip R.	ERJ2GEJ472X	1	1	R69	RK3562	Chip R.	ERJ2GEJ104X	1	1
R5	RK3062	Chip R.	MCR03EZHJ104	1	1	R70	RK3538	Chip R.	ERJ2GEJ102X	1	1
R6	RK3526	Chip R.	ERJ2GEJ101X	1	1	R71	RK3538	Chip R.	ERJ2GEJ102X	1	1
R7	RK3038	Chip R.	MCR03EZHJ102	1	1	R72	RK6024	Chip R.	ERJ1WYJ680H	1	1
R8	RK3550	Chip R.	ERJ2GEJ103X	1	1	R73	RK3550	Chip R.	ERJ2GEJ103X	1	1
R9	RK3542	Chip R.	ERJ2GEJ222X	1	1	R74	RK3038	Chip R.	MCR03EZHJ102	1	1
R10	RK0069	Chip R.	ERJ6GEYJ104V	1	1	R75	RK3046	Chip R.	MCR03EZHJ472	1	1
R11	RK3524	Chip R.	ERJ2GEJ680X	1	1	R76	RK3038	Chip R.	MCR03EZHJ102	1	1
R12	RK3516	Chip R.	ERJ2GEJ150X	1	1	R77	RK3526	Chip R.	ERJ2GEJ101X	1	1
R13	RK3522	Chip R.	ERJ2GEJ470X	1 1	1	R78	RK3538	Chip R.	ERJ2GEJ102X	1	1
R14	RK3516	Chip R.	ERJ2GEJ150X	1 1	1	R79	RK3050	Chip R.	MCR03EZHJ103	1	1
R15		Chip R.	MCR03EZHJ220	1	1	R80	RK3050	Chip R.	MCR03EZHJ103	1	1
R16	RK3032	Chip R.	MCR03EZHJ331	1	1	R81	RK3522	Chip R.	ERJ2GEJ470X	1	1
R17	RK3534	Chip R.	ERJ2GEJ471X	1 1	1	R82	RK3530	Chip R.	ERJ2GEJ221X	1	1
R18		Chip R.	ERJ2GEJ683X	1	1	R83	RK3550	Chip R.	ERJ2GEJ103X	1	1
R19	RK3550	Chip R.	ERJ2GEJ103X	1 1	1	R84	RK3542	Chip R.	ERJ2GEJ222X	1	1
	RK3554	Chip R.	ERJ2GEJ223X	1	1	R85	RK3054	Chip R.	MCR03EZHJ223	1	1
R21	RK3530	Chip R.	ERJ2GEJ221X	1	1	R86	RK3552	Chip R.	ERJ2GEJ153X	1	1
R22	RK3538	Chip R.	ERJ2GEJ102X	1	1	R87	RK3522	Chip R.	ERJ2GEJ470X	1	1
R23	RK3534	Chip R.	ERJ2GEJ471X	1	1	R88	RK3050	Chip R.	MCR03EZHJ103	1	1
R24	RK3049	Chip R.	MCR03EZHJ822	1	1	R89	RK3516	Chip R.	ERJ2GEJ150X	1	1
R25		Chip R.	ERJ2GEJ471X	1 1	1	R90	RK3559	Chip R.	ERJ2GEJ563X	1	1
	RK3516	Chip R.	ERJ2GEJ150X	1	1	R92	RK3530	Chip R.	ERJ2GEJ221X	1	1
R27	RK3538	Chip R.	ERJ2GEJ102X	1	1	R93	RK3522	Chip R.	ERJ2GEJ470X	1	1
R28		Chip R.	MCR03EZHJ820	1	1	R94	RK3538	Chip R.	ERJ2GEJ102X	1	1
	RK3542	Chip R.	ERJ2GEJ222X	1 1	1	R95	RK3565	Chip R.	ERJ2GEJ184X	1	1
R30	RK3558	Chip R.	ERJ2GEJ473X	1 1	1	R96	RK3542	Chip R.	ERJ2GEJ222X	1	1
R31	RK3552	Chip R.	ERJ2GEJ153X	1 1	1	R97	RK3559	Chip R.	ERJ2GEJ563X	1	1
R32	RK3050	Chip R.	MCR03EZHJ103	1 1	1	R98	RK3550	Chip R.	ERJ2GEJ103X	1	1
R33	RK3550	Chip R.	ERJ2GEJ103X	1	1	R99	RK3552	Chip R.	ERJ2GEJ153X	1	1
R34	RK3046	Chip R.	MCR03EZHJ472	1	1	R100	RK3542	Chip R.	ERJ2GEJ222X	1	1
R35	RK3546	Chip R.	ERJ2GEJ472X	1	1	R101	RK3516	Chip R.	ERJ2GEJ150X	1	1
R36	RK3546	Chip R.	ERJ2GEJ472X	1	1	R102	RK3550	Chip R.	ERJ2GEJ103X	1	1
R37	RK3518	Chip R.	ERJ2GEJ220X	1	1	R103	RK3542	Chip R.	ERJ2GEJ222X	1	1
R38	RK3516	Chip R.	ERJ2GEJ150X	1	1	R104	RK3555	Chip R.	ERJ2GEJ273X	1	1
R39	RK3062	Chip R.	MCR03EZHJ104	1	1	R105	RK3552	Chip R.	ERJ2GEJ153X	1	1
R40	RK3562	Chip R.	ERJ2GEJ104X	1	1	R106	RK3534	Chip R.	ERJ2GEJ471X	1	1
R41	RK3542	Chip R.	ERJ2GEJ222X	1	1	R107	RK3554	Chip R.	ERJ2GEJ223X	1	1
R42	RK3050	Chip R.	MCR03EZHJ103	1	1	R108	RK3550	Chip R.	ERJ2GEJ103X	1	1
R43	RK3534	Chip R.	ERJ2GEJ471X	1	1	R109	RK3542	Chip R.	ERJ2GEJ222X	1	1
R44	RK3050	Chip R.	MCR03EZHJ103	1	1	R110	RK3538	Chip R.	ERJ2GEJ102X	1	1
R45	RK3522	Chip R.	ERJ2GEJ470X	1	1	R111	RK3546	Chip R.	ERJ2GEJ472X	1	1
R46	RK3542	Chip R.	ERJ2GEJ222X	1	1	R112	RK3529	Chip R.	ERJ2GEJ181X	1	1
R47	RK3050	Chip R.	MCR03EZHJ103	1	1	R113	RK3550	Chip R.	ERJ2GEJ103X	1	1
R48	RK3038	Chip R.	MCR03EZHJ102	1	1	R114	RK3542	Chip R.	ERJ2GEJ222X	1	1
R49	RK3547	Chip R.	ERJ2GEJ562X	1	1	R115	RK3554	Chip R.	ERJ2GEJ223X	1	1
		Chip R.	ERJ2GEJ220X	1	1	R116	RK3550	Chip R.	ERJ2GEJ103X	1	1
	RK3542	Chip R.	ERJ2GEJ222X	1	1	R117	RK3566	Chip R.	ERJ2GEJ224X	1	1
R53		Chip R.	ERJ2GEJ334X	1	1	R118	RK3558	Chip R.	ERJ2GEJ473X	1	1
		Chip R.	ERJ2GEJ472X	1	1	R119	RK3543	Chip R.	ERJ2GEJ272X	1	1
	RK3042	Chip R.	MCR03EZHJ222	1	1	R120	RK3538	Chip R.	ERJ2GEJ102X	1	1
R56	RK3550	Chip R.	ERJ2GEJ103X	1	1	R121	RK3550	Chip R.	ERJ2GEJ103X	1	1
R57	RK3542	Chip R.	ERJ2GEJ222X	1	1	R122	RK3542	Chip R.	ERJ2GEJ222X	1	1
	RK3550	Chip R.	ERJ2GEJ103X	1	1	R123	RK3535	Chip R.	ERJ2GEJ561X	1	1
R59		Chip R.	ERJ2GE0R00X	1	1	R124	RK3538	Chip R.	ERJ2GEJ102X	1	1
	RK3538	Chip R.	ERJ2GEJ102X	1	1	R125	RK3572	Chip R.	ERJ2GEJ684X	1	1
	RK3542	Chip R.	ERJ2GEJ222X	1	1	R126	RK3550	Chip R.	ERJ2GEJ103X	1	1
		Chip R.	ERJ2GEJ101X	1	1	R127	RK3552	Chip R.	ERJ2GEJ153X	1	1
	RK3524	Chip R.	ERJ2GEJ680X	1	1	R128	RK3532	Chip R.	ERJ2GEJ331X	1	1
	RK3556	Chip R.	ERJ2GEJ333X	1	1	R129	RK3532	Chip R.	ERJ2GEJ331X	1	1
R65		Chip R.	MCR03EZHJ470	1	1	R130	RK3550	Chip R.	ERJ2GEJ103X	1	1
R66	RK3542	Chip R.	ERJ2GEJ222X	1	1	R131	RK3538	Chip R.	ERJ2GEJ102X	1	1

Def			I		ty	ı	Def		
Ref.	Parts No.	Description	Parts Name		ŕ		Ref.	Parts No.	Description
No.	DIGEES	01: 0	ED 10.05 14.00V	(T)	(E)		No.	DIGES	01: 5
R132	RK3550	Chip R.	ERJ2GEJ103X	1	1		R202	RK3558	Chip R.
R133	RK3522	Chip R.	ERJ2GEJ470X	1	1		R203	RK3561	Chip R.
R134	RK3550	Chip R.	ERJ2GEJ103X	1	1		R204	RK3538	Chip R.
R135	RK3522	Chip R.	ERJ2GEJ470X	1	1		R205	RK3544	Chip R.
R136	RK3522	Chip R.	ERJ2GEJ470X	1	1		R206	RK3542	Chip R.
R137	RK3501	Chip R.	ERJ2GE0R00X	1	1		R208	RK3501	Chip R.
R138	RK3558	Chip R.	ERJ2GEJ473X	1	1		R209	RK3534	Chip R.
R139	RK3522	Chip R.	ERJ2GEJ470X	1	1		R210	RK3519	Chip R.
R140	RK3543	Chip R.	ERJ2GEJ272X	1	1		R211	RK3562	Chip R.
R141	RK3526	Chip R.	ERJ2GEJ101X	1	1		R212	RK3530	Chip R.
R142	RK3562	Chip R.	ERJ2GEJ104X	1	1		R213	RK3561	Chip R.
R143	RK3562	Chip R.	ERJ2GEJ104X	1	1		R214	RK3530	Chip R.
R144	RK3562	Chip R.	ERJ2GEJ104X	1	1		R215	RK3530	Chip R.
R145	RK3562	Chip R.	ERJ2GEJ104X	1	1		R216	RK3534	Chip R.
R146	RK3562	Chip R.	ERJ2GEJ104X	1	1		R217	RK3526	Chip R.
R147	RK3550	Chip R.	ERJ2GEJ103X	1	1		R218	RK3526	Chip R.
R148	RK3522	Chip R.	ERJ2GEJ470X	1	1		R219	RK3550	Chip R.
R149	RK3530	Chip R.	ERJ2GEJ221X	1	1		R221	RK3526	Chip R.
R150	RK3550	Chip R.	ERJ2GEJ103X	1	1		R222	RK3554	Chip R.
R151	RK3516	Chip R.	ERJ2GEJ150X	1	1		R223	RK3538	Chip R.
R152	RK3562	Chip R.	ERJ2GEJ104X	1	1		R224	RK3534	Chip R.
R153	RK3558	Chip R.	ERJ2GEJ473X	1	1		R225	RK3516	Chip R.
R154	RK3550	Chip R.	ERJ2GEJ103X	1	1		R226	RK3516	Chip R.
R155	RK3546	Chip R.	ERJ2GEJ472X	1	1		R227	RK3559	Chip R.
R157	RK3542	Chip R.	ERJ2GEJ222X	1	1		R228	RK3550	Chip R.
R158	RK3522	Chip R.	ERJ2GEJ470X	1	1		R229	RK3542	Chip R.
R159	RK3550	Chip R.	ERJ2GEJ103X	1	1		R230	RK3550	Chip R.
R160	RK3560	Chip R.	ERJ2GEJ683X	1	1		R231	RK3551	Chip R.
R161	RK3516	Chip R.	ERJ2GEJ150X	1	1		R233	RK3546	Chip R.
R162	RK3530	Chip R.	ERJ2GEJ221X	1	1		R234	RK3542	Chip R.
R163	RK3522	Chip R.	ERJ2GEJ470X	1	1		R235	RK3538	Chip R.
R164	RK3542	Chip R.	ERJ2GEJ222X	1	1		R236	RK3550	Chip R.
R165	RK3546	Chip R.	ERJ2GEJ472X	1	1		R237	RK3542	Chip R.
R166	RK3501	Chip R.	ERJ2GE0R00X	1	1		R238	RK3558	Chip R.
R168	RK3554	Chip R.	ERJ2GEJ223X	1	1		R239	RK3547	Chip R.
R169	RK3559	Chip R.	ERJ2GEJ563X	1	1		R240	RK3566	Chip R.
R170	RK3558	Chip R.	ERJ2GEJ473X	1	1		R241	RK3562	Chip R.
R172	RK3562	Chip R.	ERJ2GEJ104X	1	1		R242	RK3550	Chip R.
R173	RK3562	Chip R.	ERJ2GEJ104X	1	1		R243	RK3550	Chip R.
R174	RK3547	Chip R.	ERJ2GEJ562X	1	1		R244	RK3501	Chip R.
R175	RK3538	Chip R.	ERJ2GEJ102X	1	1		R245	RK3546	Chip R.
R176	RK3522	Chip R.	ERJ2GEJ470X	1	1		R246	RK3562	Chip R.
R177	RK3530	Chip R.	ERJ2GEJ221X	1	1		R247	RK3562	Chip R.
R178	RK3522	Chip R.	ERJ2GEJ470X	1	1		R248	RK3562	Chip R.
R179	RK3542	Chip R.	ERJ2GEJ222X	1	1		R249	RK3542	Chip R.
R180	RK3542	Chip R.	ERJ2GEJ222X	1	1		R250	RK3555	Chip R.
R181	RK3538	Chip R.	ERJ2GEJ102X	1	1		R251	RK3555	Chip R.
R182	RK3542	Chip R.	ERJ2GEJ222X	1	1		R252	RK3566	Chip R.
R183	RK3516	Chip R.	ERJ2GEJ150X	1	1		R253	RK3567	Chip R.
R184	RK3550	Chip R.	ERJ2GEJ103X	1	1		R254	RK3532	Chip R.
R185	RK3562	Chip R.	ERJ2GEJ104X	1	1		R255	RK3535	Chip R.
R186	RK3526	Chip R.	ERJ2GEJ101X	1	1		R256	RK3534	Chip R.
R187	RK3522	Chip R.	ERJ2GEJ470X	1	1		R257	RK3535	Chip R.
R188	RK3555	Chip R.	ERJ2GEJ273X	1	1		R258	RK3554	Chip R.
R189	RK3550	Chip R.	ERJ2GEJ103X	1	1		R259	RK3566	Chip R.
R190	RK3522	Chip R.	ERJ2GEJ470X	1	1		R260	RK3557	Chip R.
R191	RK3538	Chip R.	ERJ2GEJ102X	1	1		R261	RK3538	Chip R.
R193	RK3558	Chip R.	ERJ2GEJ473X	1	1		R262	RK3562	Chip R.
R194	RK3574	Chip R.	ERJ2GEJ105X	1	1		R263	RK3526	Chip R.
R195	RK3550	Chip R.	ERJ2GEJ103X	1	1		R264	RK3532	Chip R.
R196	RK3552	Chip R.	ERJ2GEJ153X	1	1		R265	RK3530	Chip R.
R197	RK3550	Chip R.	ERJ2GEJ103X	1	1		R266	RK3556	Chip R.
R200	RK3542	Chip R.	ERJ2GEJ222X	1	1		R267	RK3562	Chip R.
R201	RK3526	Chip R.	ERJ2GEJ101X	1	1		R268	RK3532	Chip R.
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Parts No.	Ref.					ty
R203 RK3561 Chip R. ERJ2GEJ823X 1 <td>1</td> <td>Parts No.</td> <td>Description</td> <td>Parts Name</td> <td></td> <td>ri –</td>	1	Parts No.	Description	Parts Name		ri –
R204 RK3538 Chip R. ERJ2GEJ102X 1 1 1 R205 RK3544 Chip R. ERJ2GEJ322X 1 1 1 R206 RK3542 Chip R. ERJ2GEJ202X 1 1 1 R208 RK3519 Chip R. ERJ2GEJ471X 1 1 1 R211 RK3519 Chip R. ERJ2GEJ204X 1 1 1 R211 RK3530 Chip R. ERJ2GEJ221X 1 1 1 R213 RK3530 Chip R. ERJ2GEJ221X 1 1 1 R216 RK3530 Chip R. ERJ2GEJ211X 1 1 1 R216 RK3530 Chip R. ERJ2GEJ101X 1<	R202	RK3558	Chip R.	ERJ2GEJ473X		
R205 RK3544 Chip R. ERJ2GEJ332X 1 <td>R203</td> <td>RK3561</td> <td>Chip R.</td> <td>ERJ2GEJ823X</td> <td>1</td> <td>1</td>	R203	RK3561	Chip R.	ERJ2GEJ823X	1	1
R206 RK35612 Chip R. ERJ2GED222X 1 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
R208 RK35501 Chip R. ERJ2GEDROOX 1 </td <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td>	1					
R209 RK3534 Chip R. ERJ2GEJ471X 1 <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td>	1					
R210 RK35519 Chip R. ERJ2GEJ2TOX 1 </td <td>l</td> <td></td> <td></td> <td></td> <td></td> <td></td>	l					
R211 RK3562 Chip R. ERJ2GEJ104X 1 <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td>	1					
R212 RK3530 Chip R. ERJ2GEJ221X 1 <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td>	1					
R214 RK3530 Chip R. ERJ2GEJ221X 1 <td>l .</td> <td></td> <td></td> <td></td> <td>1</td> <td>1</td>	l .				1	1
R215 RK3530 Chip R. ERJ2GEJ221X 1 <td>R213</td> <td>RK3561</td> <td>Chip R.</td> <td>ERJ2GEJ823X</td> <td>1</td> <td>1</td>	R213	RK3561	Chip R.	ERJ2GEJ823X	1	1
R216 RK3534 Chip R. ERJ2GEJ471X 1 <td>R214</td> <td>RK3530</td> <td>Chip R.</td> <td>ERJ2GEJ221X</td> <td>1</td> <td>1</td>	R214	RK3530	Chip R.	ERJ2GEJ221X	1	1
R217 RK3526 Chip R. ERJ2GEJ101X 1 <td>I</td> <td></td> <td>Chip R.</td> <td></td> <td></td> <td>1</td>	I		Chip R.			1
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R251 RK3555 Chip R. ERJ2GEJ273X 1 1 1 R252 RK3566 Chip R. ERJ2GEJ224X 1 1 1 R253 RK3567 Chip R. ERJ2GEJ274X 1 1 1 R254 RK3532 Chip R. ERJ2GEJ331X 1 1 1 R255 RK3535 Chip R. ERJ2GEJ561X 1 1 1 R256 RK3534 Chip R. ERJ2GEJ561X 1 1 1 R257 RK3535 Chip R. ERJ2GEJ261X 1 1 1 R258 RK3554 Chip R. ERJ2GEJ261X 1 1 1 R259 RK3566 Chip R. ERJ2GEJ2223X 1 1 1 R260 RK3557 Chip R. ERJ2GEJ3933X 1 1 1 R261 RK3562 Chip R. ERJ2GEJ104X 1 1 1 R262 RK3562 Chip R. ERJ2GEJ331X <td>R249</td> <td>RK3542</td> <td>Chip R.</td> <td></td> <td>1</td> <td>1</td>	R249	RK3542	Chip R.		1	1
R252 RK3566 Chip R. ERJ2GEJ224X 1 1 1 R253 RK3567 Chip R. ERJ2GEJ274X 1 1 1 R254 RK3532 Chip R. ERJ2GEJ331X 1 1 1 R255 RK3535 Chip R. ERJ2GEJ561X 1 1 1 R256 RK3534 Chip R. ERJ2GEJ561X 1 1 1 R257 RK3535 Chip R. ERJ2GEJ261X 1 1 1 R258 RK3554 Chip R. ERJ2GEJ223X 1 1 1 R259 RK3566 Chip R. ERJ2GEJ2224X 1 1 1 R260 RK3557 Chip R. ERJ2GEJ393X 1 1 1 R261 RK3538 Chip R. ERJ2GEJ102X 1 1 R262 RK3562 Chip R. ERJ2GEJ104X 1 1 R263 RK3532 Chip R. ERJ2GEJ331X 1 1 <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td>	1					
R253 RK3567 Chip R. ERJ2GEJ274X 1 1 R254 RK3532 Chip R. ERJ2GEJ331X 1 1 R255 RK3535 Chip R. ERJ2GEJ561X 1 1 R256 RK3534 Chip R. ERJ2GEJ471X 1 1 R257 RK3535 Chip R. ERJ2GEJ561X 1 1 1 R258 RK3554 Chip R. ERJ2GEJ223X 1 1 1 R259 RK3566 Chip R. ERJ2GEJ2224X 1 1 1 R260 RK3557 Chip R. ERJ2GEJ393X 1 1 1 R261 RK3538 Chip R. ERJ2GEJ102X 1 1 1 R262 RK3562 Chip R. ERJ2GEJ104X 1 1 1 R263 RK3526 Chip R. ERJ2GEJ331X 1 1 1 R264 RK3530 Chip R. ERJ2GEJ221X 1 1 1 R265 RK3556 Chip R. ERJ2GEJ333X 1 1 1 <	l .					
R254 RK3532 Chip R. ERJ2GEJ331X 1 1 R255 RK3535 Chip R. ERJ2GEJ561X 1 1 R256 RK3534 Chip R. ERJ2GEJ471X 1 1 R257 RK3535 Chip R. ERJ2GEJ561X 1 1 1 R258 RK3554 Chip R. ERJ2GEJ223X 1 1 1 R259 RK3566 Chip R. ERJ2GEJ2224X 1 1 1 R260 RK3557 Chip R. ERJ2GEJ393X 1 1 1 R261 RK3538 Chip R. ERJ2GEJ102X 1 1 1 R262 RK3562 Chip R. ERJ2GEJ104X 1 1 1 R263 RK3526 Chip R. ERJ2GEJ331X 1 1 1 R264 RK3530 Chip R. ERJ2GEJ221X 1 1 1 R265 RK3556 Chip R. ERJ2GEJ333X 1 1 1 <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td>	1					
R255 RK3535 Chip R. ERJ2GEJ561X 1 1 1 R256 RK3534 Chip R. ERJ2GEJ471X 1 1 1 R257 RK3535 Chip R. ERJ2GEJ261X 1 1 1 R258 RK3554 Chip R. ERJ2GEJ223X 1 1 1 R259 RK3566 Chip R. ERJ2GEJ2224X 1 1 1 R260 RK3557 Chip R. ERJ2GEJ393X 1 1 1 R261 RK3538 Chip R. ERJ2GEJ102X 1 1 1 R262 RK3562 Chip R. ERJ2GEJ104X 1 1 1 R263 RK3526 Chip R. ERJ2GEJ331X 1 1 1 R264 RK3532 Chip R. ERJ2GEJ221X 1 1 R265 RK3550 Chip R. ERJ2GEJ333X 1 1 R266 RK3556 Chip R. ERJ2GEJ333X 1 1 <td>l .</td> <td></td> <td></td> <td></td> <td></td> <td></td>	l .					
R256 RK3534 Chip R. ERJ2GEJ471X 1 1 R257 RK3535 Chip R. ERJ2GEJ561X 1 1 1 R258 RK3554 Chip R. ERJ2GEJ223X 1 1 1 R259 RK3566 Chip R. ERJ2GEJ224X 1 1 1 R260 RK3557 Chip R. ERJ2GEJ393X 1 1 1 R261 RK3538 Chip R. ERJ2GEJ102X 1 1 1 R262 RK3562 Chip R. ERJ2GEJ104X 1 1 1 R263 RK3526 Chip R. ERJ2GEJ331X 1 1 1 R264 RK3532 Chip R. ERJ2GEJ221X 1 1 1 R265 RK3530 Chip R. ERJ2GEJ333X 1 1 1 R266 RK3556 Chip R. ERJ2GEJ333X 1 1 1 R267 RK3562 Chip R. ERJ2GEJ104X 1	l		· ·			
R257 RK3535 Chip R. ERJ2GEJ561X 1 1 1 R258 RK3554 Chip R. ERJ2GEJ223X 1 1 1 R259 RK3566 Chip R. ERJ2GEJ224X 1 1 1 R260 RK3557 Chip R. ERJ2GEJ393X 1 1 1 R261 RK3538 Chip R. ERJ2GEJ102X 1 1 1 R262 RK3562 Chip R. ERJ2GEJ104X 1 1 1 R263 RK3526 Chip R. ERJ2GEJ3101X 1 1 1 R264 RK3532 Chip R. ERJ2GEJ331X 1 1 1 R265 RK3530 Chip R. ERJ2GEJ221X 1 1 1 R266 RK3556 Chip R. ERJ2GEJ333X 1 1 1 R267 RK3562 Chip R. ERJ2GEJ104X 1 1 1	l .					
R258 RK3554 Chip R. ERJ2GEJ223X 1 1 R259 RK3566 Chip R. ERJ2GEJ224X 1 1 R260 RK3557 Chip R. ERJ2GEJ393X 1 1 R261 RK3538 Chip R. ERJ2GEJ102X 1 1 R262 RK3562 Chip R. ERJ2GEJ104X 1 1 R263 RK3526 Chip R. ERJ2GEJ101X 1 1 R264 RK3532 Chip R. ERJ2GEJ331X 1 1 R265 RK3530 Chip R. ERJ2GEJ221X 1 1 R266 RK3556 Chip R. ERJ2GEJ333X 1 1 R267 RK3562 Chip R. ERJ2GEJ104X 1 1	l					
R260 RK3557 Chip R. ERJ2GEJ393X 1 1 R261 RK3538 Chip R. ERJ2GEJ102X 1 1 R262 RK3562 Chip R. ERJ2GEJ104X 1 1 1 R263 RK3526 Chip R. ERJ2GEJ101X 1 1 1 R264 RK3532 Chip R. ERJ2GEJ331X 1 1 1 R265 RK3530 Chip R. ERJ2GEJ221X 1 1 1 R266 RK3556 Chip R. ERJ2GEJ333X 1 1 1 R267 RK3562 Chip R. ERJ2GEJ104X 1 1 1	R258	RK3554		ERJ2GEJ223X	1	1
R261 RK3538 Chip R. ERJ2GEJ102X 1 1 R262 RK3562 Chip R. ERJ2GEJ104X 1 1 1 R263 RK3526 Chip R. ERJ2GEJ101X 1 1 1 1 R264 RK3532 Chip R. ERJ2GEJ331X 1 1 1 R265 RK3530 Chip R. ERJ2GEJ221X 1 1 1 R266 RK3556 Chip R. ERJ2GEJ333X 1 1 R267 RK3562 Chip R. ERJ2GEJ104X 1 1	R259					1
R262 RK3562 Chip R. ERJ2GEJ104X 1 1 R263 RK3526 Chip R. ERJ2GEJ101X 1 1 R264 RK3532 Chip R. ERJ2GEJ331X 1 1 R265 RK3530 Chip R. ERJ2GEJ221X 1 1 R266 RK3556 Chip R. ERJ2GEJ333X 1 1 R267 RK3562 Chip R. ERJ2GEJ104X 1 1	l .					
R263 RK3526 Chip R. ERJ2GEJ101X 1 1 R264 RK3532 Chip R. ERJ2GEJ331X 1 1 R265 RK3530 Chip R. ERJ2GEJ221X 1 1 R266 RK3556 Chip R. ERJ2GEJ333X 1 1 R267 RK3562 Chip R. ERJ2GEJ104X 1 1	l .					
R264 RK3532 Chip R. ERJ2GEJ331X 1 1 R265 RK3530 Chip R. ERJ2GEJ221X 1 1 R266 RK3556 Chip R. ERJ2GEJ333X 1 1 R267 RK3562 Chip R. ERJ2GEJ104X 1 1	l .					
R265 RK3530 Chip R. ERJ2GEJ221X 1 1 R266 RK3556 Chip R. ERJ2GEJ333X 1 1 R267 RK3562 Chip R. ERJ2GEJ104X 1 1	l .					
R266 RK3556 Chip R. ERJ2GEJ333X 1 1 R267 RK3562 Chip R. ERJ2GEJ104X 1 1	1					
R267 RK3562 Chip R. ERJ2GEJ104X 1 1	1					
	l .					
	R268	RK3532	Chip R.	ERJ2GEJ331X	1	1

Ref. No.	Parts No.	Description	Parts Name	(T)	ty (E)		Ref. No.	Parts No.	Description	Parts Name	(T)	ty (E)
R269	RK3526	Chip R.	ERJ2GEJ101X	1	1		R344	RK3522	Chip R.	ERJ2GEJ470X	1	1
R270	RK3562	Chip R.	ERJ2GEJ104X	1	1		R346	RK3526	Chip R.	ERJ2GEJ101X	1	1
R271	RK3526	Chip R.	ERJ2GEJ101X	1	1		R347	RK3522	Chip R.	ERJ2GEJ470X	1	1
R272	RK3546	Chip R.	ERJ2GEJ472X	1	1		R348	RK3570	Chip R.	ERJ2GEJ474X	1	1
R273	RK3526	Chip R.	ERJ2GEJ101X	1	1		R349	RK3534	Chip R.	ERJ2GEJ471X	1	1
R274	RK3551	Chip R.	ERJ2GEJ123X	1	1		R350	RK3514	Chip R.	ERJ2GEJ100X	1	1
R275	RK3562	Chip R.	ERJ2GEJ104X	1	1		R351	RK3562	Chip R.	ERJ2GEJ104X	1	1
R276	RK3501	Chip R.	ERJ2GE0R00X	1	1		R352	RK3522	Chip R.	ERJ2GEJ470X	1	1
R277	RK3516	Chip R.	ERJ2GEJ150X	1	1		R353	RK3558	Chip R.	ERJ2GEJ473X	1	1
R278	RK3516	Chip R.	ERJ2GEJ150X	1	1		R354	RK3549	Chip R.	ERJ2GEJ822X	1	1
R279	RK3516	Chip R.	ERJ2GEJ150X	1	1		R355	RK3542	Chip R.	ERJ2GEJ222X	1	1
R280	RK3542	Chip R.	ERJ2GEJ222X	1	1		R356	RK3538	Chip R.	ERJ2GEJ102X	1	1
R282	RK3538	Chip R.	ERJ2GEJ102X	1	1		R357	RK3554	Chip R.	ERJ2GEJ223X	1	1
R283	RK3562	Chip R.	ERJ2GEJ104X	1	1		R358	RK3558	Chip R.	ERJ2GEJ473X	1	1
R284	RK3522	Chip R.	ERJ2GEJ470X	1	1		R359	RK3538	Chip R.	ERJ2GEJ102X	1	1
R285	RK3550	Chip R.	ERJ2GEJ103X	1	1		R360	RK3546	Chip R.	ERJ2GEJ472X	1	1
R286	RK3568	Chip R.	ERJ2GEJ334X	1	1		R361	RK3542	Chip R.	ERJ2GEJ222X	1	1
R288	RK3538	Chip R.	ERJ2GEJ102X	1	1		R362	RK3542	Chip R.	ERJ2GEJ222X	1	1
R289	RK3570	Chip R.	ERJ2GEJ474X	1	1		R363	RK3550	Chip R.	ERJ2GEJ103X	1	1
R290	RK3538	Chip R.	ERJ2GEJ102X	1	1		R364	RK3558	Chip R.	ERJ2GEJ473X	1	1
R291	RK3546	Chip R.	ERJ2GEJ472X	1	1		R365	RK3546	Chip R.	ERJ2GEJ472X	1	1
R292	RK3550	Chip R.	ERJ2GEJ103X	1	1		R366	RK3550	Chip R.	ERJ2GEJ103X	1	1
R293	RK3538	Chip R.	ERJ2GEJ102X	1	1		R367	RK3550	Chip R.	ERJ2GEJ103X	1	1
R294	RK3550	Chip R.	ERJ2GEJ103X	1	1		R368	RK3574	Chip R.	ERJ2GEJ105X	1	1
R295	RK3557	Chip R.	ERJ2GEJ393X	1	1		R369	RK3552	Chip R.	ERJ2GEJ153X	1	1
R296	RK3557	Chip R.	ERJ2GEJ393X	1	1		R370	RK3561	Chip R.	ERJ2GEJ823X	1	1
R297	RK3546	Chip R.	ERJ2GEJ472X	1	1		R371	RK3552	Chip R.	ERJ2GEJ153X	1	1
R298	RK3558	Chip R.	ERJ2GEJ473X	1	1		R372	RK3538	Chip R.	ERJ2GEJ102X	1	1
R299	RK3562	Chip R.	ERJ2GEJ104X	1	1		R373	RK3546	Chip R.	ERJ2GEJ472X	1	1
R300	RK3558	Chip R.	ERJ2GEJ473X	1	1		R374	RK3501	Chip R.	ERJ2GE0R00X	1	1
R301	RK3557	Chip R.	ERJ2GEJ393X	1	1		R375	RK3554	Chip R.	ERJ2GEJ223X	1	1
R302	RK3550	Chip R.	ERJ2GEJ103X	1	1		R376	RK3550	Chip R.	ERJ2GEJ103X	1	1
R303	RK3562	Chip R.	ERJ2GEJ104X	1	1		R377	RK3538	Chip R.	ERJ2GEJ102X	1	1
R304	RK3546	Chip R.	ERJ2GEJ472X	1	1		R378	RK3550	Chip R.	ERJ2GEJ103X	1	1
R306	RK3501	Chip R.	ERJ2GE0R00X	1	1		R379	RK3550	Chip R.	ERJ2GEJ103X	1	1
R307	RK3535	Chip R.	ERJ2GEJ561X	1	1		R380	RK3558	Chip R.	ERJ2GEJ473X	1	1
R308	RK3501	Chip R.	ERJ2GE0R00X	1	1		R381	RK3536	Chip R.	ERJ2GEJ681X	1	1
R309	RK3550	Chip R.	ERJ2GEJ103X	1	1		R382	RK3546	Chip R.	ERJ2GEJ472X	1	1
R310	RK3562	Chip R.	ERJ2GEJ104X	1	1		R383	RK3555	Chip R.	ERJ2GEJ273X	1	1
R311	RK3550	Chip R.	ERJ2GEJ103X	1	1		R384	RK3538	Chip R.	ERJ2GEJ102X	1	1
R313	RK3562	Chip R.	ERJ2GEJ104X	1	1		R385	RK3542	Chip R.	ERJ2GEJ222X	1	1
R314	RK3554	Chip R.	ERJ2GEJ223X	1	1		R386	RK3542	Chip R.	ERJ2GEJ222X	1	1
R316		Chip R.	ERJ2GEJ222X	1	1		R387	RK3552	Chip R.	ERJ2GEJ153X	1	1
	RK3562	Chip R.	ERJ2GEJ104X	1	1		R388	RK3561	Chip R.	ERJ2GEJ823X	1	1
	RK3530	Chip R.	ERJ2GEJ221X	1	1		R389	RK3558	Chip R.	ERJ2GEJ473X	1	1 1
R320	RK3530	Chip R.	ERJ2GEJ221X	1	1		R390	RK3538	Chip R.	ERJ2GEJ102X	1	1
R321	RK3530	Chip R.	ERJ2GEJ221X	1 1	1		R391	RK3574	Chip R.	ERJ2GEJ105X	1	1
	RK3522	Chip R.	ERJ2GEJ470X	1 1	1		R392	RK3550	Chip R.	ERJ2GEJ103X	1	1
R323	RK3530	Chip R.	ERJ2GEJ221X	1 1	1		R394	RK3538	Chip R.	ERJ2GEJ102X	1	1
R324	RK3522	Chip R.	ERJ2GEJ470X	1 1	1		R395	RK3550	Chip R.	ERJ2GEJ103X	1	1
R327	RK3560	Chip R.	ERJ2GEJ683X	1 1	1		R396	RK3538	Chip R.	ERJ2GEJ102X	1	
	RK3538	Chip R.	ERJ2GEJ102X	1 1	1		R397	RK3092	Chip R.	MCR03EZPFX7502	1	1
	RK3516 RK3558	Chip R. Chip R.	ERJ2GEJ150X ERJ2GEJ473X	1 1	1		R398 R399	RK3549 RK3050	Chip R.	ERJ2GEJ822X MCR03EZHJ103	1	1
	RK3550	Chip R.	ERJ2GEJ473X ERJ2GEJ103X	1 1			R400	RK3546	Chip R. Chip R.		1	1
R334	RK3550	Chip R.	ERJ2GEJ103X ERJ2GEJ822X	1 1	1		R400	RK3546	Chip R.	ERJ2GEJ472X ERJ2GEJ472X	1	1
	RK3549 RK3538	Chip R.	ERJ2GEJ102X		1		R401	RK3550	Chip R.	ERJ2GEJ472X ERJ2GEJ103X		
R336	RK3538	Chip R.	ERJ2GEJ102X	1	1		R402 R403	RK3550	Chip R.	ERJ2GEJ103X ERJ2GEJ182X	1	1
R338	RK3558	Chip R.	ERJ2GEJ102X ERJ2GEJ473X		1		R403	RK3091	Chip R.	MCR03EZPFX3902	1	1
R339	RK3558	Chip R.	ERJ2GEJ473X		1		R405	RK3550	Chip R.	ERJ2GEJ103X	1	
R340	RK3556 RK3574	Chip R.	ERJ2GEJ473X		1		R405	RK3550	Chip R.	ERJ2GEJ103X	1	1
R341	RK3574 RK3542	Chip R.	ERJ2GEJ222X		1		R407	RK3502 RK3526	Chip R.	ERJ2GEJ101X	1	
R342	RK3530	Chip R.	ERJ2GEJ221X		1		R408	RK2024	Chip R.	MCR50JZH471E	1	1
R343	RK3522	Chip R.	ERJ2GEJ470X		1		R409	RK3542	Chip R.	ERJ2GEJ222X	1	1
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Ref.	Parts No.	Description	Parts Name		ty
No. R410	RK3542	Chip R.	ERJ2GEJ222X	(T) 1	(E)
R411	RK3550	Chip R.	ERJ2GEJ103X	1	1
R412	RK3566	Chip R.	ERJ2GEJ224X	1	1
R413	RK3550	Chip R.	ERJ2GEJ103X	1	1
R414	RK3046	Chip R.	MCR03EZHJ472	1	1
R415	RK3091	Chip R.	MCR03EZPFX3902	1	1
R416	RK3557	Chip R.	ERJ2GEJ393X	1	1
R417	RK3561	Chip R.	ERJ2GEJ823X	1	1
R418	RK3559	Chip R.	ERJ2GEJ563X	1	1
R419	RK3563	Chip R.	ERJ2GEJ124X	1	1
R420	RK3545	Chip R.	ERJ2GEJ392X	1	1
R421	RK3552	Chip R.	ERJ2GEJ153X	1	1
R422	RK0025	Chip R.	ERJ6GEYJ331V	1	1
R423	RK3572	Chip R.	ERJ2GEJ684X	1	1
R424	RK3564	Chip R.	ERJ2GEJ154X	1	1
R425	RK3522	Chip R.	ERJ2GEJ470X	1	1
R426	RK3038	Chip R.	MCR03EZHJ102	1	1
R427	RK3534	Chip R.	ERJ2GEJ471X	1	1
R428	RK3542	Chip R.	ERJ2GEJ222X	1	1
R429	RK3562	Chip R.	ERJ2GEJ104X	1	1
R430 R431	RK3564 RK3572	Chip R. Chip R.	ERJ2GEJ154X ERJ2GEJ684X	1	1
		Chip R.	ERJ2GEJ103X		1
R432 R433	RK3550 RK3559	Chip R.	ERJ2GEJ103X ERJ2GEJ563X	1	1
R434	RK3567	Chip R.	ERJ2GEJ274X	1	1
R435	RK3550	Chip R.	ERJ2GEJ103X	1	<u> </u>
R436	RK3560	Chip R.	ERJ2GEJ683X	1	1
R437	RK3562	Chip R.	ERJ2GEJ104X	1	1
R438	RK3552	Chip R.	ERJ2GEJ153X	1	1
R439	RK3550	Chip R.	ERJ2GEJ103X	1	1
R440	RK3538	Chip R.	ERJ2GEJ102X	1	1
R441	RK3541	Chip R.	ERJ2GEJ182X	1	1
R442	RK3534	Chip R.	ERJ2GEJ471X	1	1
R443	RK3550	Chip R.	ERJ2GEJ103X	1	1
R444	RK3558	Chip R.	ERJ2GEJ473X	1	1
R445	RK3562	Chip R.	ERJ2GEJ104X	1	1
R446	RK3562	Chip R.	ERJ2GEJ104X	1	1
R447	RK3562	Chip R.	ERJ2GEJ104X	1	1
R448	RK3562	Chip R.	ERJ2GEJ104X	1	1
R449	RK3558	Chip R.	ERJ2GEJ473X	1	1
R450	RK3538	Chip R.	ERJ2GEJ102X	1	1
R451	RK3557	Chip R.	ERJ2GEJ393X	1	1
R452	RK3561	Chip R.	ERJ2GEJ823X	1	1
R453	RK3559	Chip R.	ERJ2GEJ563X	1	1
R454	RK3563	Chip R.	ERJ2GEJ124X	1	1
R455	RK3545	Chip R.	ERJ2GEJ392X	1	1
R456 R457	RK3552 RK3546	Chip R. Chip R.	ERJ2GEJ153X ERJ2GEJ472X	1	1
R458	RK3546	Chip R.	ERJ2GEJ472X ERJ2GEJ104X	1	1
R459	RK3562	Chip R.	ERJ2GEJ104X	1	1
R460	RK3562	Chip R.	ERJ2GEJ104X	1	
R461	RK3550	Chip R.	ERJ2GEJ103X	1	1
R462	RK3001	Chip R.	MCR03EZHJ000	1	0
R463	RK3546	Chip R.	ERJ2GEJ472X	1	1
R464	RK3554	Chip R.	ERJ2GEJ223X	1	1
R465	RK3001	Chip R.	MCR03EZHJ000	0	0
R467	RK3564	Chip R.	ERJ2GEJ154X	1	1
R468	RK3559	Chip R.	ERJ2GEJ563X	1	1
R469	RK3550	Chip R.	ERJ2GEJ103X	1	1
R470	RK3001	Chip R.	MCR03EZHJ000	0	1
R471	RK3001	Chip R.	MCR03EZHJ000	0	0
R472	RK3574	Chip R.	ERJ2GEJ105X	1	1
R473	RK3550	Chip R.	ERJ2GEJ103X	1	1
R474	RK3567	Chip R.	ERJ2GEJ274X	1	1

Ref.				C	ty
No.	Parts No.	Description	Parts Name	(T)	(E)
R475	RK3550	Chip R.	ERJ2GEJ103X	1	1
R476	RK3572	Chip R.	ERJ2GEJ684X	1	1
R477	RK3538	Chip R.	ERJ2GEJ102X	1	1
R478	RK3550	Chip R.	ERJ2GEJ103X	1	1
R479	RK2010	Chip R.	MCR50JZHJ330E	1	1
R481	RK3562	Chip R.	ERJ2GEJ104X	1	1
R482	RK3558	Chip R.	ERJ2GEJ473X	1	1
R483	RK3550	Chip R.	ERJ2GEJ103X	1	1
R484	RK3558	Chip R.	ERJ2GEJ473X	1	1
R485	RK3501	Chip R.	ERJ2GE0R00X	1	1
R486	RK3557	Chip R.	ERJ2GEJ393X	1	1
R487	RK3557	Chip R.	ERJ2GEJ393X	1	1
R488	RK3562	Chip R.	ERJ2GEJ104X	1	1
R489	RK3550	Chip R.	ERJ2GEJ103X	1	1
R490	RK3564	Chip R.	ERJ2GEJ154X	1	1
R491	RK3538	Chip R.	ERJ2GEJ102X	1	1
R492	RK3522	Chip R.	ERJ2GEJ470X	1	1
R493	RK3534	Chip R.	ERJ2GEJ471X	1	1
R494	RK3550	Chip R.	ERJ2GEJ103X	1	1
R495	RK3550	Chip R.	ERJ2GEJ103X	1	1
R496	RK3522	Chip R.	ERJ2GEJ470X	1	1
R497	RK3562	Chip R.	ERJ2GEJ104X	1	1
R498	RK3526	Chip R.	ERJ2GEJ101X	1	1
R500	RK3550	Chip R.	ERJ2GEJ103X	1	1
R501	RK3558	Chip R.	ERJ2GEJ473X	1	1
R502	RK3542	Chip R.	ERJ2GEJ222X	1	1
R503	RK3542	Chip R.	ERJ2GEJ222X	1	1
R504	RK3554	Chip R.	ERJ2GEJ223X	1	1
R505	RK3554	Chip R.	ERJ2GEJ223X	1	1
R506	RK3501	Chip R.	ERJ2GE0R00X	1	
R508	RK3538	Chip R.	ERJ2GEJ102X	1	1
R509	RK3550	Chip R.	ERJ2GEJ103X	1	1
R511	RK3538	Chip R.	ERJ2GEJ102X	1	1
R512	RK3557	Chip R.	ERJ2GEJ393X	1	1
R513	RK3538	Chip R.	ERJ2GEJ102X	1	1
R514	RK3538	Chip R.	ERJ2GEJ102X	1	1
R515	RK3552	Chip R.	ERJ2GEJ153X	1	1
R516	RK3538	Chip R.	ERJ2GEJ102X	1	1
R517	RK3550	Chip R.	ERJ2GEJ103X	1	1
R519	RK3550	Chip R.	ERJ2GEJ103X	1	1
R520	RK3550	Chip R.	ERJ2GEJ103X	1	1
R521	RK3522	Chip R.	ERJ2GEJ470X	1	1
R522	RK3559	Chip R.	ERJ2GEJ563X	1	1
R523	RK3530	Chip R.	ERJ2GEJ221X	1	1
R524	RK3542	Chip R.	ERJ2GEJ222X	1	1
R525	RK3522	Chip R.	ERJ2GEJ470X	1	1
R526	RK3574	Chip R.	ERJ2GEJ105X	1	1
R527	RK3558	Chip R.	ERJ2GEJ473X	1	1
R528	RK3546	Chip R.	ERJ2GEJ472X	1	1
R529	RK3516	Chip R.	ERJ2GEJ150X	1	1
R530	RK3516	Chip R.	ERJ2GEJ150X	1	1
R531	RK3547	Chip R.	ERJ2GEJ562X	1	1
R532	RK3501	Chip R.	ERJ2GE0R00X	1	1
R533	RK3526	Chip R.	ERJ2GEJ101X	1	1
R534	RK3562	Chip R.	ERJ2GEJ104X	1	1
R535	RK3550	Chip R.	ERJ2GEJ103X	1	1
R536	RK3558	Chip R.	ERJ2GEJ473X	1	1
R537	RK3550	Chip R.	ERJ2GEJ103X	1	1
R538	RK3530	Chip R.	ERJ2GEJ330X	1	1
R539	RK3520 RK3562	Chip R.	ERJ2GEJ104X	1	1
R540	RK3562	Chip R.	ERJ2GEJ104X	1	1
	RK3554	Chip R.	ERJ2GEJ104X ERJ2GEJ223X	1	1
R5/11			ILINGEOLUZZON	1 1	1 1
R541 R542	RK4091	Chip R.	ERJ12YJ104U	1	1

Ref.	Parts No.	Description	Porto Nomo	С	ty
No.	Paris No.	Description	Parts Name		(E)
TH1	XS0021	Thermistor	TBPS1R103K440H5Q	1	1
VR3	RH0142	Trimmer R.	MVR22HXBRN103	1	1
VR4	RH0142	Trimmer R.	MVR22HXBRN103	1	1
VR5	RH0146	Trimmer R.	MVR22HXBRN473	1	1
VR6	RH0154	Trimmer R.	MVR22HXBRN105	1	1
VR7	RH0148	Trimmer R.	MVR22HXBRN104	1	1
VR8	RH0152	Trimmer R.	MVR22HXBRN474	1	1
VR9	RH0148	Trimmer R.	MVR22HXBRN104	1	1
X1	XQ0148	Xtal OSC	DSA534HB 21.250MHZ	1	1
X4	XQ0150	Xtal OSC	DSX631S 45.555MHZ	1	1
X5	XQ0149	Xtal OSC	AT-49 9.8304MHZ	1	1
XF1	XF0051	Xtal Filter	Q2175AD20 21.7MHZ	1	1
XF2	XF0051	Xtal Filter	Q2175AD20 21.7MHZ	1	1
XF3	XF0050	Xtal Filter	Q45115BD10 45.1MHZ	1	1
	FG0327		CUSHION DR135	1	1
	FM0214		RADIATIVE PLATE 620	1	1
	FM0220		GROUND PLATE DR620	2	2
	TS0172		VCO CASE DR620	2	2
	TZ0049		SILICON DUMPER	4	4
	TZ0056		SILICON DUMPER 49U	1	1
	UP0448A	P.C.B	DR620 INTEGRATED	1	1

Packing Parts

Ref.	Parts No. Description Parts Name		Q	ity	
No.	Paris No.			(T)	(E)
	DS0446		NITTO MODEL PLATE(S)	1	3.2
	EHM53A	Microphone	EMS53A	0	1
	EHM57B	Microphone	EMS57B	1	0
	FM0078Z	Bracket	BRACKET DR130	1	1
	HK0551	Package	PACKAGE DR620	1	1
	HM0215		OUTER CARTON 10PCS	0.2	0.2
	HP0006Z		POLY-BAG	1	1
	HP0035	Plastic bag	5X200X250	1	1
	HU0170		INNER 10PCS DJX3	0.4	0.4
	HU0189		INNER DR620	1	1
	HU0192		INNER B DR620	1	1
	PH0013		WARRANTY CEAT EXPORT	1	0
	PK0094		Schematic Diagram DR620T	1	1
	PR0447		WARNING FCC (N)	1	0
	PR0452		FCC HOME USE	1	0
	PR0454		SECURITY STICKER T	2	2
	PR0478		SER.NO.STICKER	0	2.2
	PR0514		EPSON 10X49 LABEL(W)	2	2
	PS0410	Manual	Instruction manual DR620T	1	1
	UX1290A	Wire	WIRE UX1290A	1	1

Mechanical Parts

Ref.	Parts No.	Description	Parts Name		ity
No.	Faits No.	Description	r arts Name	(T)	(E)
	AA0050	Screw	XSC26+6FZ	4	4
	AA0077	Screw	3+16FeBC	4	4
	AB0012	Screw	XYN26+C5	2	2
	AN0013 Screw		RND N7X0.75 BR/B.ZN	1	1
	AV0006	Screw	B2.6+8 FeNi	19	19
	AW0012	Screw	W 3+9FeN	4	4
	AX0003	Screw	0PH P2+16 FE/B.ZN 3	2	2
	AZ0037Y	Screw	W3 Fe BC	4	4
	DG0042		LED LIGHT DR620	2	2
	DP0145		LCD Panel	1	1
	ES0017	Speaker	057M9017	1	1
	ET0011	Fan Motor	FAN FD1240107B-1N	1	1
	FG0361		CUSHION DR620	2	2
	FM0216		FAN COVER DR620	1	1
	FM0222		HEAT SINK 2	1	1
	FP0151		REAR PANEL DR135	1	1
	FP0153A		CUSHION B	2	2
	FP0197		BLIND SHEET DR620	4	4
	FP0198		SPACER DR620	4	4
	KB0089		REAR CASE DR620	1	1
	KS0081		BOTTOM CASE DR620	1	1
	KZ0147		Front CaseDR620	1	1
	NK0072	Knob	KL0677A-VOL DR135	2	2
	NK0073	Knob	KL0678A-DIAL DR135	1	1
	NP0139		POWER BUTTON DR620	1	1
	NP0140		V/M BUTTON DR620	1	1
	QB0036	Ferrite bead	BP53RB120070060M	1	1
	SP0008		GND TERM XM601	1	1
	SS0098		Chassis	1	1
	ST0065		SP HOLDER DR135	1	1
	ST0066		SP FITTING DR135	1	1
	TG0034		SP HIMERON DR135	1	1
	UE0258	Connector	FM-M.D.R-(4)	1	1
	UX1047	SP Wire	WIRE DR130	1	1
	UX1284	Cable	CABLE DR620	1	1
	YZ0131		Tape #9110 12X1mm	80	80

Accessories (Screw Set)

Ref.	Parts No.	Description	Parts Name	C	ty
No.	Faits No.	Description	Faits Name	(T)	(E)
	AA0013	Screw	M5+20 Fe/Zn	4	4
	AE0012	Screw	HEXH/D M4+8 Fe/B.Zn	4	4
	AJ0003	Screw	T5+20 Fe/Zn	4	4
	AJ0003	Nut	N5x0.8 Fe/Zn	4	4
	AZ0009	Washer	5x9.2x1.3 Fe/Zn	4	4
	AZ0010	Washer	5x12x0.8 Fe/Zn	4	4
	EF0005	Fuse	FGBO 125V 15A	2	2
	FM0079Z	Spanner	DR130	1	1
	HP0006	Plastic bag	5x90x170	1	1
	YZ0121	Таре	Tape 10mm	2	2

ADJUSTMENT

1) Adjustment Spot

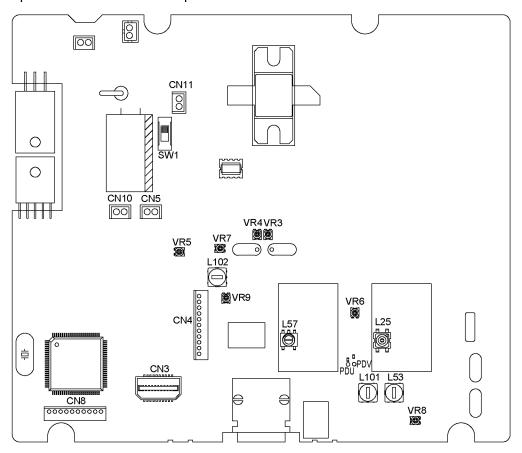
Power Supply Voltage 13.8V

Output of SSG is all EMF indication

If without instruction, SSG output is MOD 1KHz 3.5KHz/DEV.

Standard Modulation is also based above.

Speaker load is 8Ω and Output is $50 \sim 100$ mV.



Attention: Don't set the variable resistor into its open position.

This adjustment-mode sequence is valid only for T/TA and E versions.

2) Adjustment Mode

Adjusment memory table

Memory CH	VHF Freqency [MHz]	UHF Freqency [MHz]	Contents
CH1	146.000	440.000	PD Voltage
CH2	146.000	440.000	Ref Frequency
CH3	146.000 (145.000)	440.000 (435.000)	Hi Power
CH4	146.000 (145.000)	440.000 (435.000)	Mid Power
CH5	146.000 (145.000)	440.000 (435.000)	Low Power
CH6	146.050	440.050	RX Distortion
CH7	136.050	400.050	RX Sensitivity L
CH8	146.050	440.050	RX Sensitivity M
CH9	173.950	479.950	RX Sensitivity H
CH10	146.050	440.050	S Meter 1
CH11	146.050	440.050	S Meter FULL
CH12	146.050	440.050	Squelch
CH13	87.700		RX Distortion
CH14	87.700		S Meter 1
CH15	87.700		S Meter FULL
CH16	146.000 (145.000)	440.000 (435.000)	TX Deviation
CH17	146.000 (145.000)	440.000 (435.000)	TX Deviation NAR
CH18	146.000 (145.000)	440.000 (435.000)	Mic Gain
CH19	146.000 (145.000)	440.000 (435.000)	CTCSS 88.5Hz
CH20	146.000 (145.000)	440.000 (435.000)	DCS 255
CH21	146.000 (145.000)	440.000 (435.000)	Tone Burst 1750Hz
CH22	145.050	435.050	agi n g

) = DR620E

After the above frequency is written in the memory, it is set on the adjustment mode by the following operation.

Memory switching of VHF and UHF can be done with the BAND key.

Adjustment mode is canceled when a power switch is turned on with CALL key.

[Cautions]

3) VHF Adjustment Specification

ITEM	CH No	CONDITION	UNIT	ADJ.SPOT	ADJUSTING METHOD
PD ADJ.	CH1	146.00MHz RX	MAIN	L25	Adjust so that PDV voltage becomes 2.7V
Frequency	CH2	440.00MHz TX	MAIN	VR6	Adjust so that Tx Frequency becomes within 146.00MHz ± 100Hz
HI POWER	CH3	146.00MHz HIGH	FRONT	RE601	Adjust to 50.0 ± 1.0W
MID POWER	CH4	146.00MHz MID	FRONT	RE601	Adjust to 10.0 ± 1.0W
LOW POWER	CH5	146.00MHz LOW	FRONT	RE601	Adjust to 5.0 ± 0.5W
RX Distortion	CH6	146.05MHz SSG 60dBu	MAIN	L101	It is adjusted to become maximum. Confirm : Less than 3%
Rx Signal Sensitivity	CH7	136.05MHz	FRONT	FUNC -↓ RE601-↓ FUNC	Adjust so that the Rx sensitivity becomes in maximum. At –8dBu SINAD more than 12dB
Rx Signal Sensitivity	CH8	146.05MHz	FRONT	FUNC -↓ RE601-↓ FUNC	Adjust so that the Rx sensitivity becomes in maximum. At –8dBu SINAD more than 12dB
Rx Signal Sensitivity	СН9	173.95MHz	FRONT	FUNC -↓ RE601-↓ FUNC	Adjust so that the Rx sensitivity becomes in maximum. At –4dBu SINAD more than 12dB
S-meter(1)	CH10	146.05MHz SSG –3dBu	FRONT	FUNC	It is confirmed by the FUNC key.
S-meter (FULL)	CH11	146.05MHz SSG 15dBu	FRONT	FUNC	It is confirmed by the FUNC key.
Squelch	CH12	146.05MHz SSG OFF Ind : 01	MAIN	VR8	Adjust so that the squelch stops at perfectly close location
RX Distortion	CH13	87.5MHz 60dBu/1kHz 22KHz/DEV	MAIN	L53	It is adjusted to become maximum. Confirm: Less than 3% SG OUT 20 ~ 80dBu: Less than 5%
S-meter(1)	CH14	87.7MHz –3dBu/1KHz 22KHz/DEV	FRONT	FUNC	It is confirmed by the FUNC key.
S-meter (FULL)	CH15	87.7MHz 15dBu/1KHz 22KHz/DEV	FRONT	FUNC	It is confirmed by the FUNC key.
Maximum Deviation	CH16	146.00MHz MOD 1KHz40mVemf	MAIN	VR3	4.5 ± 0.1KHz/DEV
Maximum Deviation	CH17	146.00MHz MOD 1KHz 40mVemf (narrow)			2.2 ± 0.3KHz/DEV
Mic Gain	CH18	146.00MHz MOD 1KHz4mVemf	MAIN	VR5	2.85 ± 0.1KHz/DEV
CTCSS Modulation	CH19	146.00MHz 88.5Hz			800 ± 400Hz/DEV 3KHz LPF ON
DCS Modulation	CH20	146.00MHz 255 Code	MAIN	VR7	800 ± 50Hz/DEV 3KHz LPF ON
1750Hz Modulation	CH21	146.00MHz 1750Hz			3.0 ± 0.5KHz/DEV

4) UHF Adjustment Specification

ITEM	CH No	CONDITION	UNIT	ADJ. SPOT	ADJUSTING METHOD
PD ADJ.	CH1	440.00MHz RX	MAIN	L57	Adjust so that PDU voltage becomes 3.4V
HI POWER	СНЗ	440.00MHz HI POWER	FRONT	RE601	Adjust to 35.0 ± 1.0W
MID POWER	CH4	440.00MHz MID POWER	FRONT	RE601	Adjust to 10.0 ± 1.0W
LOW POWER	CH5	440.00MHz LOW POWER	FRONT	RE601	Adjust to 5.0 ± 0.5W
RX Distortion	CH6	440.05MHz SSG 60dBu	MAIN	L102	It is adjusted to become maximum volume when a position of Volume is done at 11 o'clock. Confirm: Less than 3%
Rx Signal Sensitivity	CH7	400.05MHz	FRONT	FUNC ↓ RE601 ↓ FUNC	Adjust so that the Rx sensitivity becomes in maximum. Confirm: At –4dBu SINAD more than 12dB
Rx Signal Sensitivity	CH8	440.05MHz	FRONT	FUNC ↓ RE601 ↓ FUNC	Adjust so that the Rx sensitivity becomes in maximum. Confirm: At –8dBu SINAD more than 12dB
Rx Signal Sensitivity	CH9	479.95MHz	FRONT	FUNC ↓ RE601 ↓ FUNC	Adjust so that the Rx sensitivity becomes in maximum. Confirm: At –6dBu SINAD more than 12dB
S-meter(1)	CH10	440.05MHz SSG 0dBu	FRONT	FUNC	It is confirmed by the FUNC key.
S-mter(FULL)	CH11	440.05MHz SSG 20dBu	FRONT	FUNC	It is confirmed by the FUNC key.
Squelch	CH12	440.05MHz SSG OFF Indication 01	MAIN	VR9	Adjust so that the squelch stops at perfectly close location
Maximum Deviation	CH16	440.00MHz MOD 1KHz 40mVemf	MAIN	VR4	4.5 ± 0.1KHz/DEV
Maximum Deviation	CH17	440.00MHz MOD 1KHz 40mVemf (narrow)			2.2 ± 0.3KHz/DEV
Mic Gain	CH18	440.00MHz MOD 1KHz 4mVemf			3.0 ± 0.5KHz/DEV
CTCSS Modulation Level	CH19	440.00MHz 88.5Hz			800 ± 400Hz/DEV 3KHz LPF ON
DCS Modulation Level	CH20	440.00MHz 255 Code			800 ± 400Hz/DEV 3KHz LPF ON
1750Hz Modulation Level	CH21	440.00MHz 1750Hz			3.0 ± 0.5KHz/DEV

5) VHF Test Specification

TEST ITEM	CONDITION	TEST STANDARD	NOTE
DV O and their	136.05MHz 145.90MHz 173.95MHz	Less than –7dBu Less than –7dBu Less than –3dBu	12dBSINAD
RX Sensitivity	87.7MHz	Less than 6dBu	12dBSINAD 22KHz/DEV
	135.05MHz	Less than 9dBu	AM 10dB S/N
	146.05MHzSUB	Less than –6dBu	12dBSINAD
	146.05MHz	Less than 5%	SSG out 60dBu
RX Distortion	87.7MHz	Less than 5%	SSG out 60dBu 22KHz/DEV
RX S/N	146.05MHz	More than 38dB	SSG out 60dBu 0.3 ~ 3KHzBPF OFF
Squelch	146.05MHz	Squelch Open	SSG Output -10dBu
Sensitivity	Indication 02	Squelch Close	SSG Output OFF
S Meter	146.05MHz 1KHz 3.5KHz/DEV	All appears at 18dBu Disappear at -6dBu	Decrease SSG level and decrease S Meter level
S Meter	87.7MHz 1KHz 22KHz/DEV	All appears at 18dBu Disappear at -6dBu	Decrease SSG level and decrease S Meter level
AF Output	146.05MHz	More than 2W	SSG Output 60dBu
AF Output NARROW	146.05MHz NARROW	More than Normal Mode.	SSG Output 60dBu
AF Output	AF Output 87.7MHz More		SSG Output 60dBu 22KHz/DEV

TEST ITEM	CONDITION	TEST STANDARD	NOTE	
TX Output HI POWER	144.00MHz 146.00MHz 148.00MHz	50 ± 5W 50 ± 3W 50 ± 5W	(T)	
TX Output MID POWER	146.00MHz	10 ± 2W		
TX Output LOW POWER	146.00MHz	5 ± 1W		
Drain Current	146.00MHz	Less than 10A		
Spurious 146.00MHz More than 55		More than 55dB More than 55dB More than 55dB	M and L standard power is also the same as of H power level	
Modulation Level	146.00MHz	2.85 ± 0.2KHz/DEV 4.5 ± 0.2KHz/DEV	MIC IN 4mVemf MIC IN 40mVemf	
Woddiation Level	146.00MHz NARROW	2.2 ± 0.3KHz/DEV	MIC IN 40mVemf	
CTCSS	146.00MHz	800 ± 400Hz/DEV	88.5Hz 3KHz LPF ON	
Modulation Level	146.00MHz (narrow)	450 ± 200Hz/DEV		
DCS Modulation	146.00MHz	800 ± 200Hz/DEV	Code 255	
Level	146.00MHz (narrow)	450 ± 200Hz/DEV	3KHz LPF ON	
1750Hz Modulation Level	I 146 OOMHZ			
Modulation Distortion	146.00MHz	Less than 4%		
TX S/N 146.00MHz I		More than 38dB	0.3 ~ 3KHz BPF ON	

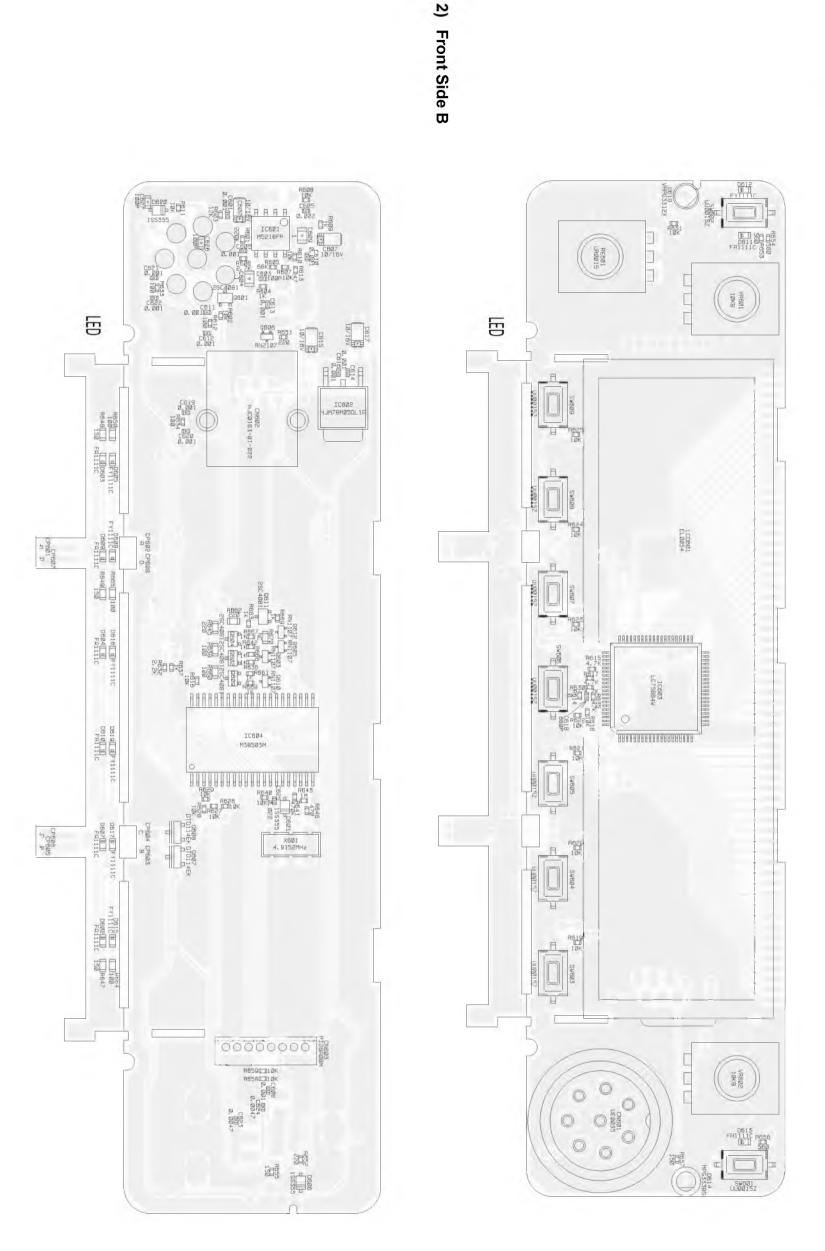
6) UHF Test Specification

TEST ITEM	CONDITION	TEST STANDARD	NOTE
RX Sensitivity	400.05MHz 440.05MHz 479.95MHz 850.05MHz 380.05MHz 440.05MHzSUB	Less than –3dBu Less than -7dBu Less than -5dBu Less than 10dBu Less than 2dBu Less than –4dBu	12dBSINAD
RX Distortion	440.05MHz	Less than 5%	SSG out 60dBu
RX S/N	440.05MHz	More than 38dB	SSG out 60dBu 0.3 ~ 3KHzBPF OFF
Squelch Sensitivity	440.05MHz Indication 02	Squelch Open Squelch Close	SSG Output -10dBu SSG Output OFF
S Meter	440.05MHz 1KHz 3.5KHz/DEV	All appears at 23dBu Disappear at -3dBu	Decrease SSG level and decrease S Meter level
AF Output	440.05MHz	More than 2W	SSG Output 60dBu
AF Output NARROW	440.05MHz NARROW	More than Normal Mode.	SSG Output 60dBu

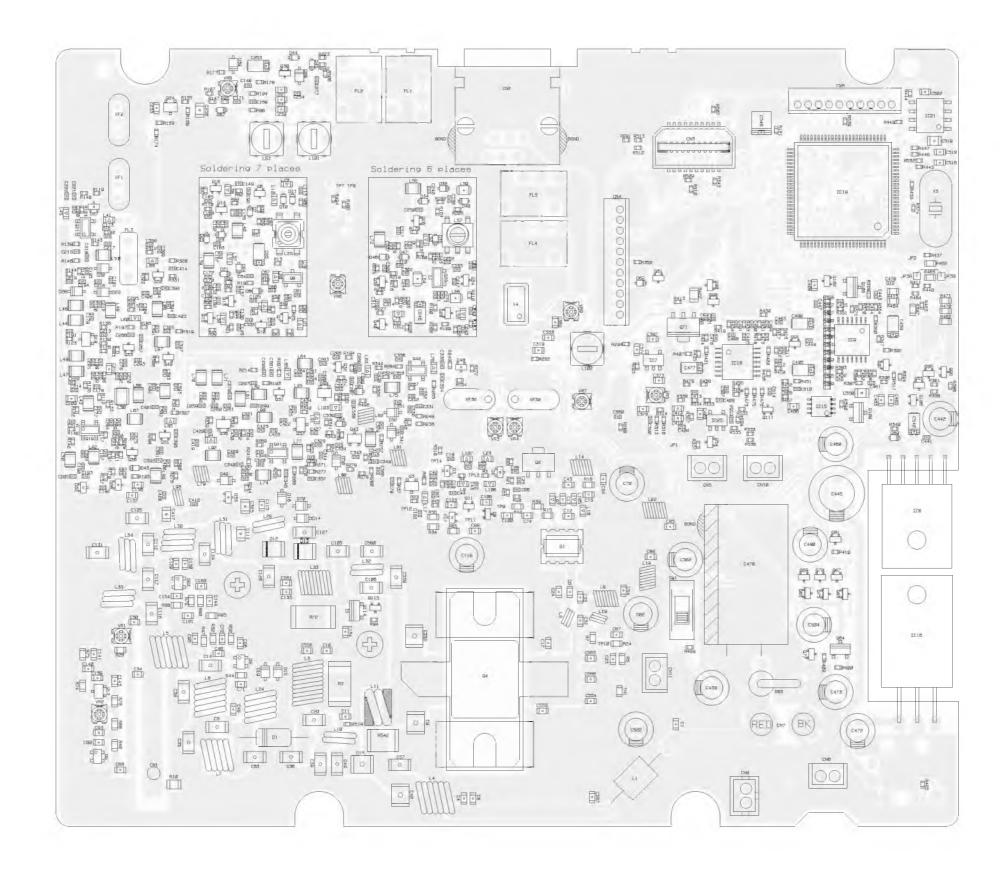
TEST ITEM	CONDITION	TEST STANDARD	NOTE
TX Output HI POWER	430.00MHz 440.00MHz 450.00MHz	35 ± 3W 35 ± 3W 35 ± 3W	(T)
TX Output MID POWER	440.00MHz	10 ± 2W	
TX Output LOW POWER	440.00MHz	5 ± 1W	
Drain Current	440.00MHz	Less than 10A	
Frequency Deviation	440.00MHz	Within ± 0.3KHz	
Spurious	430.00MHz 440.00MHz 450.00MHz	More than 60dB More than 60dB More than 60dB	
Modulation Level	440.00MHz	3.0 0.5KHz/DEV 4.5 ± 0.2KHz/DEV	MIC IN 4mVemf MIC IN 40mVemf
	440.00MHz NARROW	2.2 ± 0.3KHz/DEV	MIC IN 40mVemf
CTCSS Modulation Level	440.00MHz	800 ± 400Hz/DEV	88.5Hz 3KHz LPF ON
DCS Modulation Level	440.00MHz	800 ± 200Hz/DEV	Code 255 3KHz LPF ON
1750Hz Modulation Level	440.00MHz	3.0 ± 0.5KHz/DEV	
Modulation Distortion	440.00MHz	Less than 4%	
TX S/N		More than 38dB	0.3 -3KHz BPF ON

PC BOARD VIEW

1) Front Side A



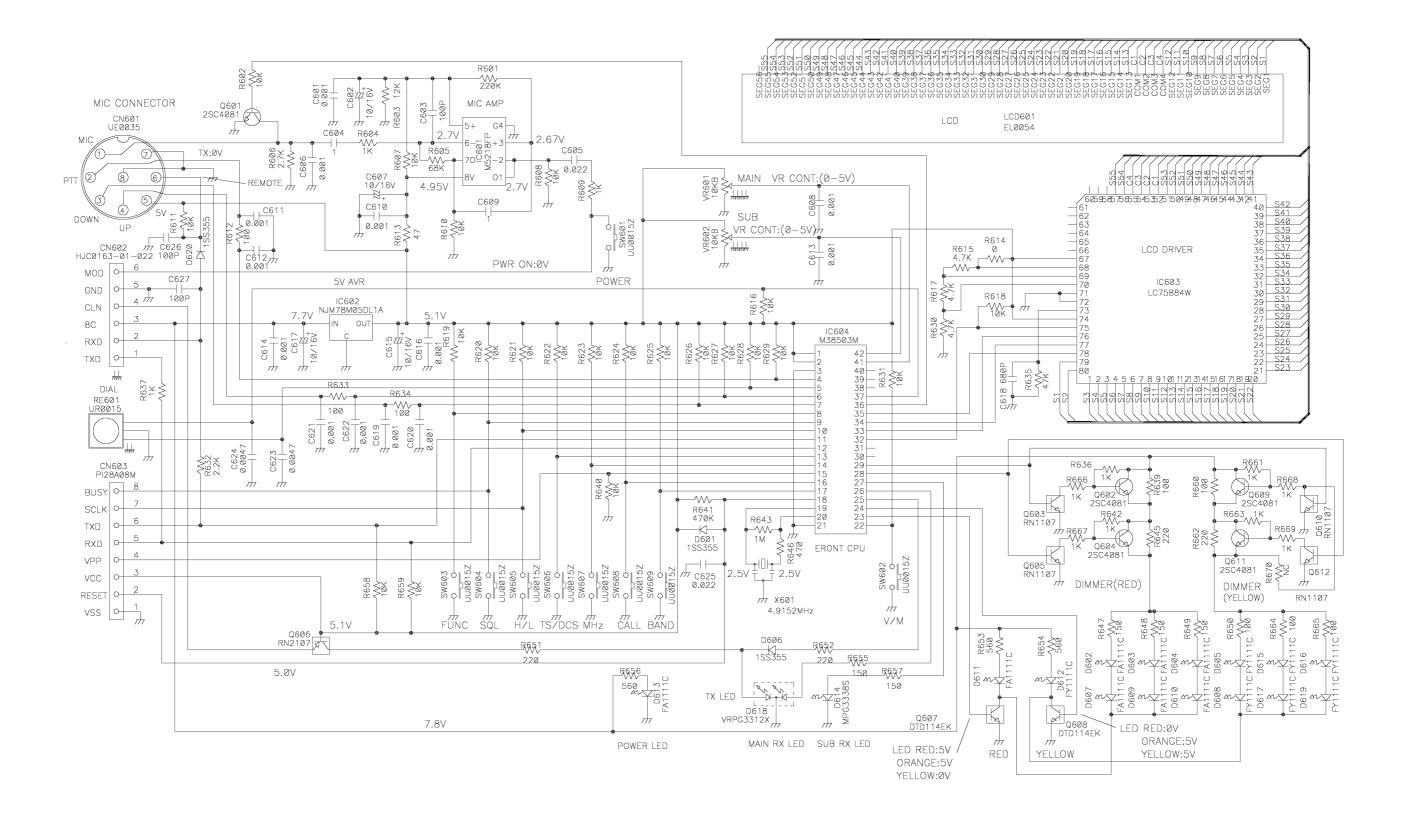
3) Main Side A



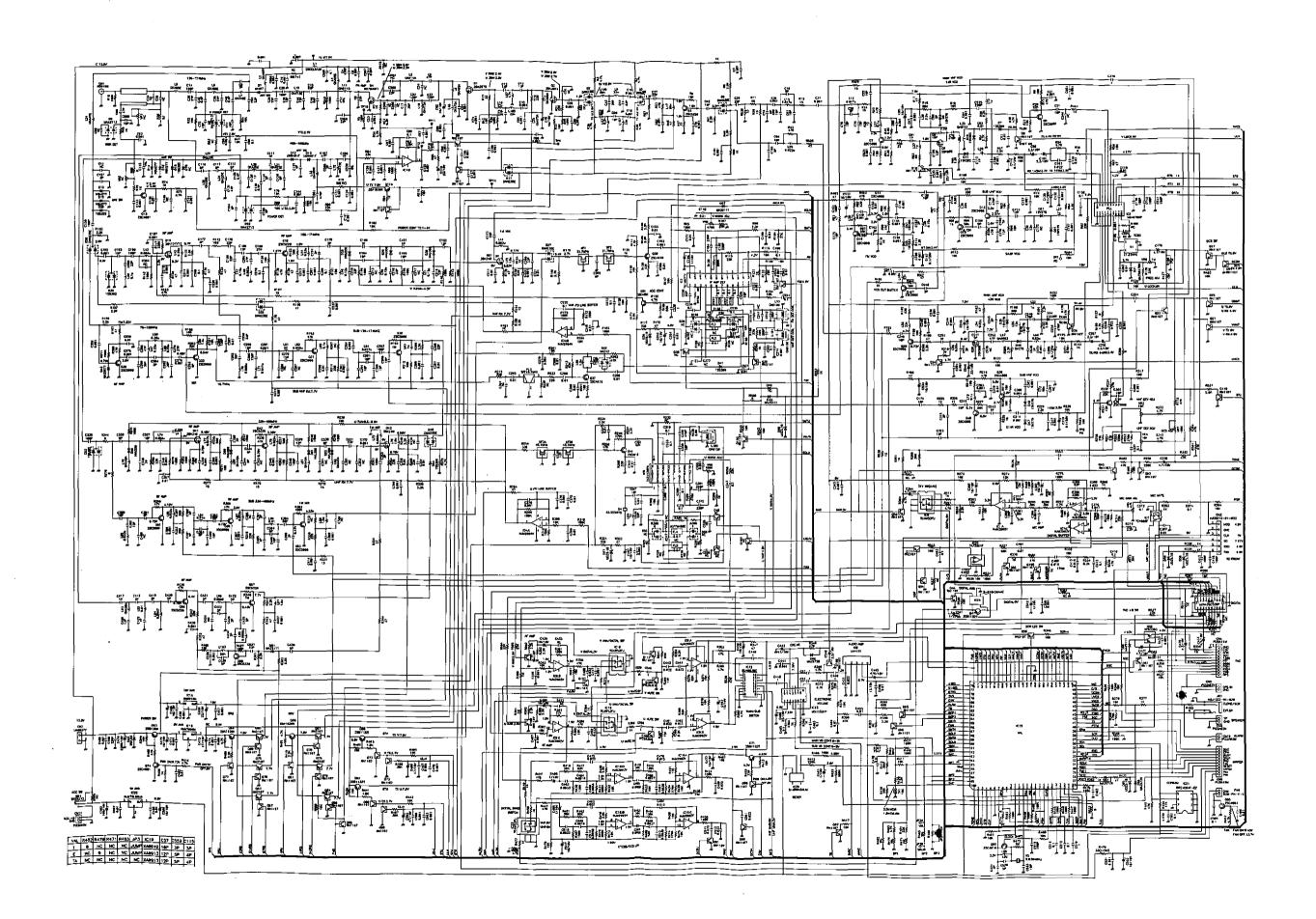
4) Main Side B



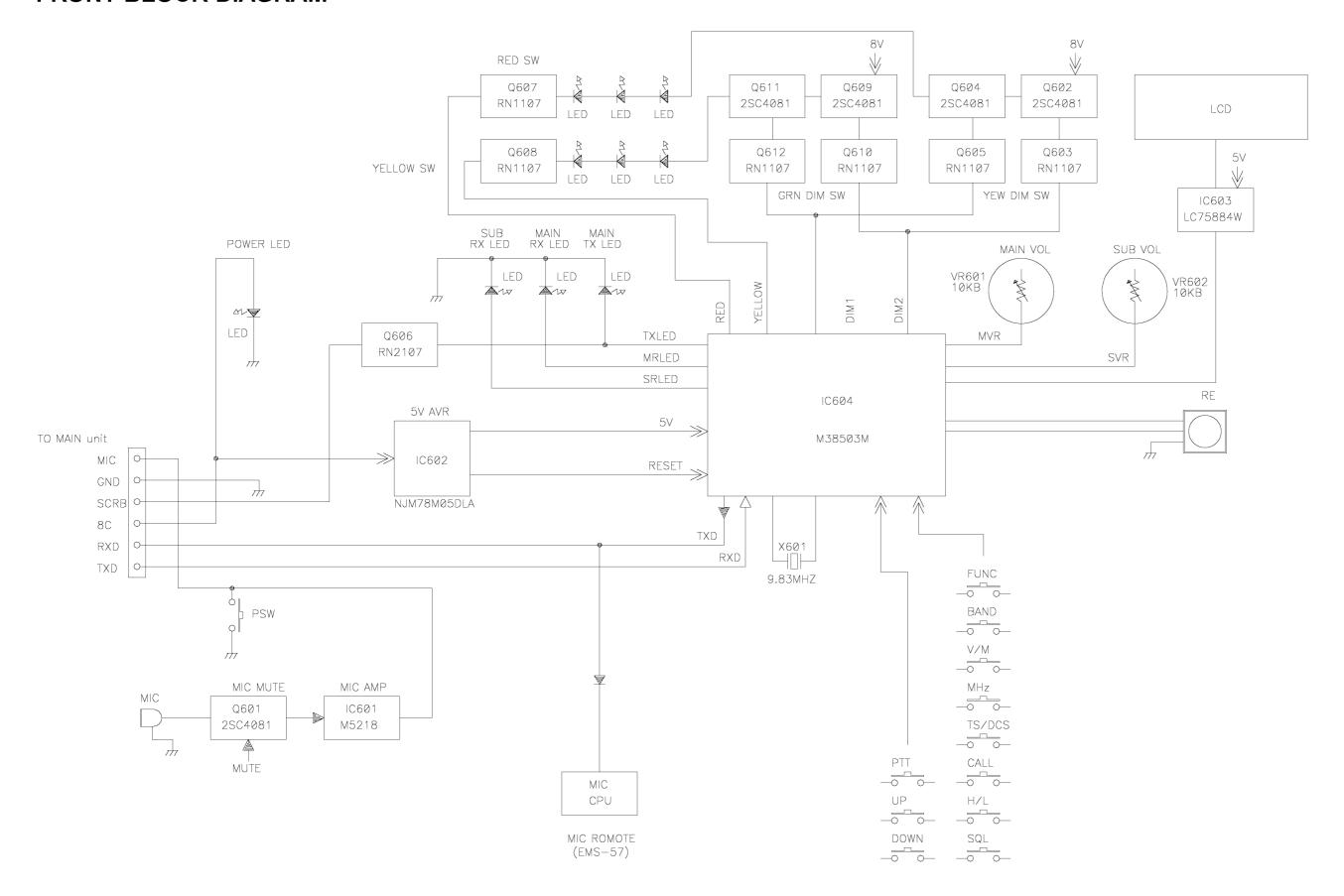
FRONT SCHEMATIC DIAGRAM



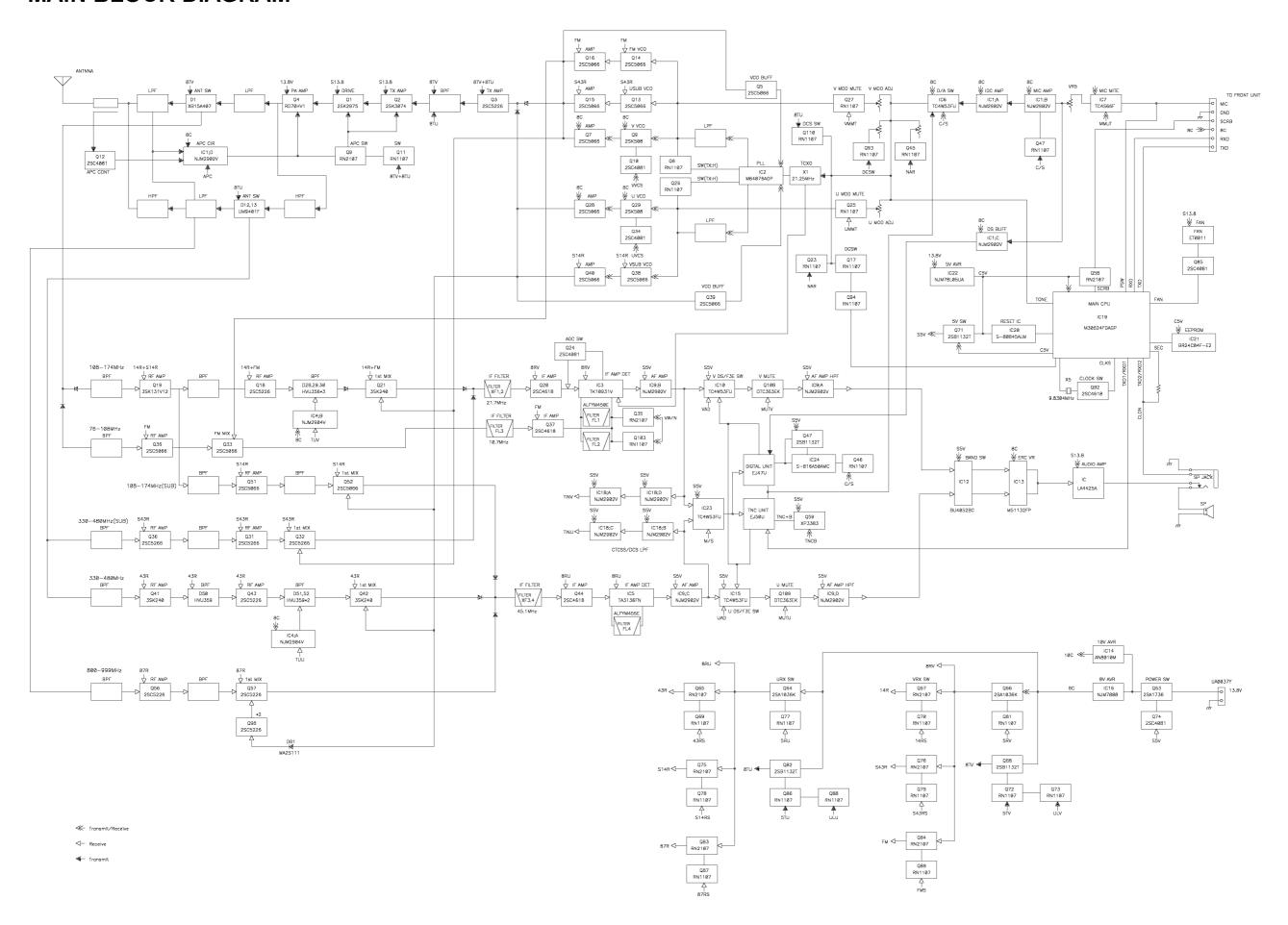
MAIN SCHEMATIC DIAGRAM



FRONT BLOCK DIAGRAM



MAIN BLOCK DIAGRAM



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